

District I
1625 N. French Dr., Hobbs, NM 88240
 District II
811 S. First St., Artesia, NM 88210
 District III
1000 Rio Brazos Road, Aztec, NM 87410
 District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy Minerals and Natural
 Resources Department
 Oil Conservation Division
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Form C-141
 Revised August 24, 2018
 Submit to appropriate OCD District office

PO #: 3RHP3-191118-C-1410

Incident ID	
District RP	
Facility ID	General Kehoe Tank Battery
Application ID	

Release Notification

Responsible Party

Responsible Party: Matador Production Company	OGRID: 228937
Contact Name: John Hurt	Contact Telephone: 972-371-5200
Contact email: JHurt@matadorresources.com	Incident # (assigned by OCD)
Contact mailing address: 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240	

Location of Release Source

Latitude 32.2534057 Longitude -104.0535332
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: General Kehoe Tank Battery	Site Type: Tank Battery
Date Release Discovered: 11/12/2019	API# (if applicable)

Unit Letter	Section	Township	Range	County
2	2	24S	28E	Eddy

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) Approx. 45 bbls	Volume Recovered (bbls) Approx. 35 bbls
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/>	Volume/Weight Released (provide units) 315 bbls	Volume/Weight Recovered (provide units)

Cause of Release:

Failure on seal of Heater Treater

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Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? >25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by SMA (Melodie Sanjari) to NMOCD District 2 & BLM on 11/12/2019 via email.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- The source of the release has been stopped.
- The impacted area has been secured to protect human health and the environment.
- Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: John Hurt Title: RES Specialist

Signature:  Date: 2/11/20

email: JHurt@matadorresources.com Telephone: 972- 371-5200

OCD Only

Received by: _____ Date: _____

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Page 3State of New Mexico
Oil Conservation Division

PO #: 3RHP3-191118-C-1410

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	55 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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Oil Conservation Division

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Printed Name: John Hurt Title: RES Specialist

Signature:  Date: 2/11/20

email: JHurt@matadorresources.com Telephone: 972-371-5200

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Received by: _____ Date: _____

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PO #: 3RHP3-191118-C-1410

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Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: John Hurt Title: RES Specialist
Signature: 
Date: 2/11/20
email: JHurt@matadorresources.com Telephone: 972-371-5200

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does it relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



NVV2003540716 GENERAL KEHOE TANK BATTERY @ A-02-24S-28E 0N 0E

February 3, 2020

Vertex Project #: 19E-04341-001

Spill Closure Report: General Kehoe Tank Battery
 Unit 2, Section 2, Township 24 South, Range 28 East
 County: Eddy
 Purchase Order #: 3RHP3-191118-C-1410

Prepared For: Matador Production Company
 5400 LBJ Freeway
 Suite 1500
 Dallas, Texas 75240

KCUJD-200211-C-1410

New Mexico Oil Conservation Division – District 2 – Artesia
 811 South First Street
 Artesia, New Mexico 88210

Matador Production Company (Matador) retained Vertex Resource Services Inc. (Vertex) to conduct a spill assessment and remediation for a crude oil release that occurred at General Kehoe Tank Battery (hereafter referred to as "General Kehoe"). Matador provided notification of the spill to New Mexico Oil Conservation Division (NM OCD) District 2 and the Bureau of Land Management (BLM) on November 12, 2019, via email, and followed up with an initial C-141 Release Notification (Attachment 1), purchase order number 3RHP3-191118-C-1410. The NM OCD tracking number for this incident is not yet assigned.

This letter provides a description of the spill assessment and remediation activities, and demonstrates that closure criteria established in 19.15.29.12 *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) have been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NM OCD for closure of this release.

Incident Description

On November 12, 2019, a release occurred at Matador's General Kehoe site when a seal on one of the heater treaters failed. This incident resulted in the release of approximately 45 barrels (bbls) of crude oil onto the engineered wellpad. A vac truck arrived on-site to recover free fluids; approximately 35 bbls of oil were recovered. The spill was contained on-site. No oil was released into undisturbed areas or waterways.

Site Characterization

The release at General Kehoe occurred on BLM-owned land, N 32.2534057, W 104.0535332, approximately 12 miles southeast of Carlsbad, New Mexico. The legal description for the site is Unit 2, Section 2, Township 24 South, Range 28 East, Eddy County, New Mexico. This location is within the Permian Basin in southeast New Mexico and has historically been used for oil and gas exploration and production, and farmland. An aerial photograph and site schematic are included in Attachment 2.

General Kehoe is typical of oil and gas exploration and production sites in the western portion of the Permian Basin, and

Matador Production Company
General Kehoe Tank Battery

2020 Spill Assessment and Closure
February 2020

is currently used for oil and gas production, and storage. The following sections specifically describe the release area on the western portion of the wellpad where the production equipment is located.

The surrounding landscape falls on the border of prime farmland of statewide importance, associated with plains and low elongated hills typical of elevations between 1,250 and 4,800 feet above sea level, and less optimal land commonly found on fans and ridges adjacent. Average annual precipitation ranges between 10 and 25 inches in the prime farmland areas and 7 to 15 inches in areas less suited to farming. Historically, the plant communities in this area were dominated by grasses, such as tobosa, black grama and blue grama in the loamy sites that received runoff from the associated nearby ridges, and grassland/shrub mix on the steeper sideslopes of the ridges themselves (United States Department of Agriculture, Natural Resources Conservation Service, 2019). Limited to no vegetation is allowed to grow on the compacted wellpad.

The Geological Map of New Mexico indicates the surface geology at General Kehoe is comprised of Qa –alluvium (New Mexico Bureau of Geology and Mineral Resources, 2019). The Natural Resources Conservation Service (NRCS) *Web Soil Survey* characterizes the soil at the site as on the verge of Reeves loam and Upton gravelly loam. Reeves loam is characterized by loam and clay loam over a gypiferous material and tends to be well drained with high runoff and low water storage in the soil profile. Upton gravelly loam is characterized by gravelly loam over a layer of cemented material and more gravelly loam. Upton gravelly loam tends to be well-drained with high runoff and very low available moisture levels in the soil profile (United States Department of Agriculture, Natural Resources Conservation Service, 2019). There is low-to-medium potential for karst geology to be present near General Kehoe (United States Department of the Interior, Bureau of Land Management, 2019).

There is no surface water located on-site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is located approximately a half mile southeast of the site (United States Fish and Wildlife Service, 2019). There are no continuously flowing watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

The nearest active well to the site is a New Mexico Office of the State Engineer (NM OSE)-identified domestic well, with a depth to groundwater of 55 feet below ground surface (bgs), located approximately 1.2 miles north of General Kehoe (New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2019). Documentation pertaining to site characterization and depth to groundwater determination is included in Attachment 3.

Closure Criteria Determination

Using site characterization information, a closure criteria determination worksheet (Attachment 3) was completed to determine if the release was subject to any of the special case scenarios outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Based on data included in the closure criteria determination worksheet, the release at General Kehoe is not subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC and the closure criteria for the site are determined to be associated with the following constituent concentration limits.

Matador Production Company
General Kehoe Tank Battery

2020 Spill Assessment and Closure
February 2020

Table 1. Closure Criteria for Soils Impacted by a Release		
Depth to Groundwater	Constituent	Limit
51<100 feet	Chloride	10,000 mg/kg
	TPH ¹ (GRO + DRO + MRO)	2,500 mg/kg
	GRO + DRO	1,000 mg/kg
	BTEX ²	50 mg/kg
	Benzene	10 mg/kg

¹Total petroleum hydrocarbons (TPH) = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO)

²Benzene, toluene, ethylbenzene and xylenes (BTEX)

Remedial Actions

An initial spill inspection and site characterization activities at General Kehoe were completed by Souder, Miller and Associates (SMA) in November 2019, and a remediation work plan was submitted to Matador. On December 17, 2019, Matador retained Vertex to complete remediation at General Kehoe through oversight of the remediation fieldwork and final confirmatory sampling.

On January 9, 2020, Vertex provided 48-hour notification of confirmation sampling to NM OCD and the BLM, as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC (Attachment 4). Excavation of the contaminated soil was conducted between January 8 and January 20, 2020, with a Vertex representative on-site to conduct field screening to determine the horizontal and vertical extents of the excavation area. The Daily Field Reports (DFR) associated with these site visits are included in Attachment 5.

Following excavation, a total of four five-point composite confirmatory samples were collected from the base and side walls of the excavation at depths ranging between ground surface and 3 feet bgs. Each composite sample was representative of no more than 200 square feet per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC, which does not require prior NM OCD approval. The composite samples were placed into laboratory-provided containers, preserved on ice, and submitted to a National Environmental Laboratory Accreditation Program (NELAP)-approved laboratory for chemical analysis.

Laboratory analyses included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. Confirmatory sample analytical data are summarized in Attachment 6. Laboratory data reports and chain of custody forms are included in Attachment 7.

A GeoExplorer 7000 Series Trimble global positioning system (GPS) unit was used to map the approximate center of each of the five-point composite samples. The confirmatory sample locations are presented on Figure 1 (Attachment 2). Relevant equipment and prominent features/reference points at the site are mapped as well.

Closure Request

Vertex recommends no additional remediation action to address the release at General Kehoe. Laboratory analyses of the final confirmatory samples showed constituent of concern concentration levels below NM OCD closure criteria for

Matador Production Company
General Kehoe Tank Battery

2020 Spill Assessment and Closure
February 2020

areas where depth to groundwater is between 50 and 100 feet bgs as shown in Table 1. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

Based on the location of the release on an active wellpad, Vertex requests that restoration and reclamation of the release area be deferred until such time as the well is plugged, the wellpad and production equipment are removed, and the pad reclaimed per 19.15.29.13 NMAC regulations.

Vertex requests that this incident be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Matador certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NM OCD requirements to obtain closure on the November 12, 2019, release at General Kehoe Tank Battery.

Should you have any questions or concerns, please do not hesitate to contact me at 505.506.0040 or ngordon@vertex.ca.

Sincerely,



Natalie Gordon
PROJECT MANAGER

Attachments

- Attachment 1. NM OCD C-141 Report
- Attachment 2. Site Schematic and Confirmatory Sample Locations
- Attachment 3. Closure Criteria for Soils Impacted by a Release Research Determination Documentation
- Attachment 4. Required 48-hr Notification of Confirmation Sampling to Regulatory Agencies
- Attachment 5. Daily Field Report(s) with Photographs
- Attachment 6. Confirmatory Sample Laboratory Results
- Attachment 7. Laboratory Data Reports/COCs

Matador Production Company
General Kehoe Tank Battery

2020 Spill Assessment and Closure
February 2020

References

- New Mexico Bureau of Geology and Mineral Resources. (2019). *Interactive Geologic Map*. Retrieved from <http://geoinfo.nmt.edu>.
- New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System. (2019). *Water Column/Average Depth to Water Report*. Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html>.
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code – Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2019). *Web Soil Survey*. Retrieved from <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>.
- United States Department of the Interior, Bureau of Land Management. (2019). *New Mexico Cave/Karsts*. Retrieved from <https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico>.
- United States Fish and Wildlife. (2019). National Wetlands Inventory. Retrieved from <https://www.fws.gov/wetlands/Data/Mapper.html>.

Matador Production Company
General Kehoe Tank Battery

2020 Spill Assessment and Closure
February 2020

Limitations

This report has been prepared for the sole benefit of Matador Production Company (Matador). This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and Matador. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

ATTACHMENT 1

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1625 N. French Dr., Hobbs, NM 88240
 District II
811 S. First St., Artesia, NM 88210
 District III
1000 Rio Brazos Road, Aztec, NM 87410
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Form C-141
 Revised August 24, 2018
 Submit to appropriate OCD District office

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Responsible Party

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Contact mailing address: 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240	

Location of Release Source

Latitude 32.2534057 Longitude -104.0535332
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: General Kehoe Tank Battery	Site Type: Tank Battery
Date Release Discovered: 11/12/2019	API# (if applicable)

Unit Letter	Section	Township	Range	County
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Surface Owner: State Federal Tribal Private (Name: _____)

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<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) Approx. 45 bbls	Volume Recovered (bbls) Approx. 35 bbls
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/>	Volume/Weight Released (provide units) 315 bbls	Volume/Weight Recovered (provide units)

Cause of Release:

Failure on seal of Heater Treater

Form C-141

Page 2

**State of New Mexico
Oil Conservation Division**

Incident ID	
District RP	
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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? >25 bbls
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If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by SMA (Melodie Sanjari) to NMOCD District 2 & BLM on 11/12/2019 via email.
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Initial Response

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- | |
|--|
| <input checked="" type="checkbox"/> The source of the release has been stopped.
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. |
|--|

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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Printed Name: John Hurt, Title: RES Specialist

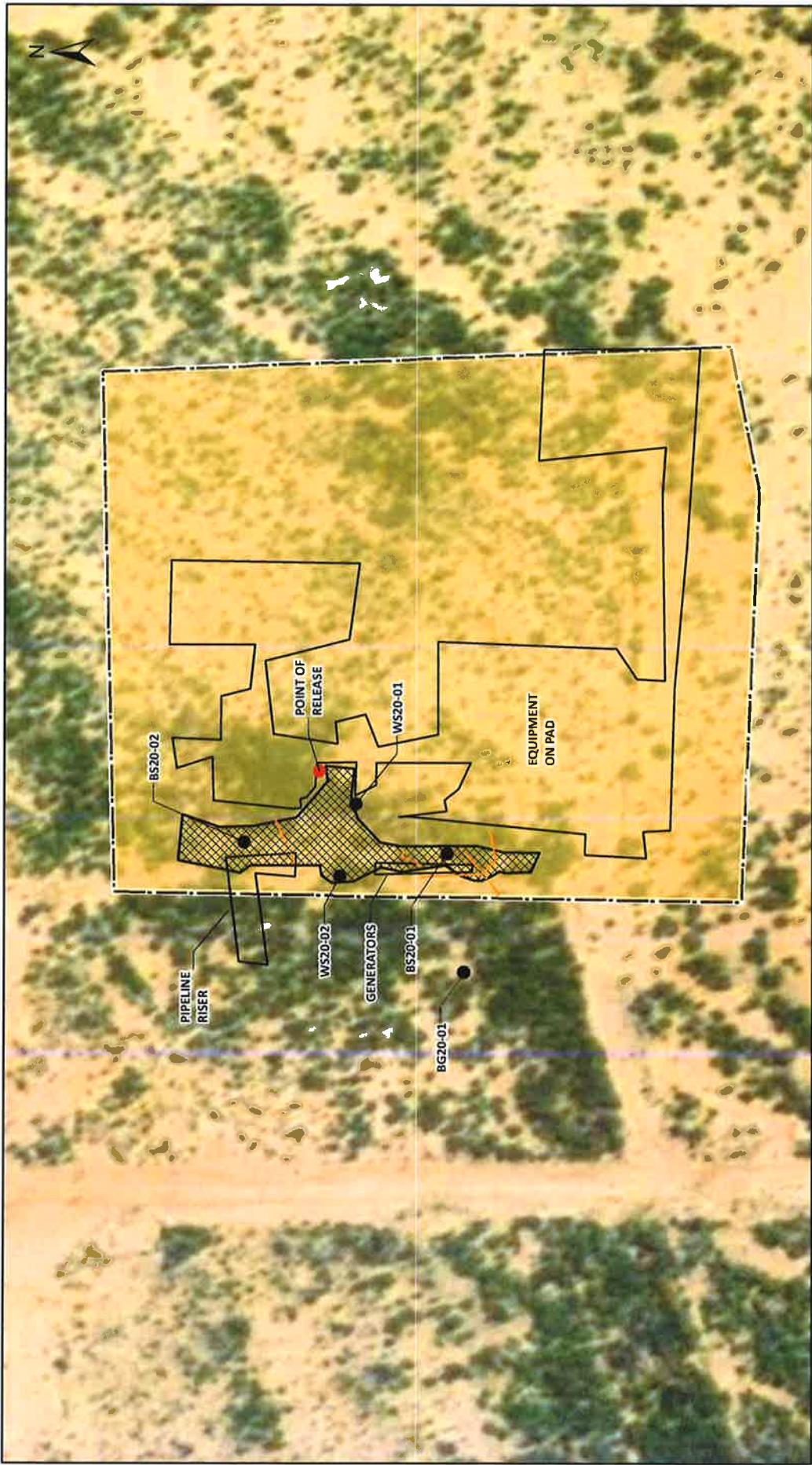
Signature:  Date: 2/11/20

email: JHurt@matadorresources.com Telephone: 972- 371-5200

OCD Only

Received by: _____ Date: _____

ATTACHMENT 2

**LEGEND**

- SOIL SAMPLE
- POINT OF RELEASE
- EXCAVATION AREA
- WELLPAD
- PIPELINE (ABOVEGROUND)
- - - PIPELINE (UNDERGROUND)

BS - BASE SAMPLE

WS - WALL SAMPLE

BG - BACKGROUND SAMPLE

SCALE 1:1,100

**Site Schematic and
Confirmatory Sample Locations
General Kehoe Tank Battery**


1

FIGURE:

1

DRAWN:

NM

APPROVED:

MP

DATE:

JAN 19/20

ATTACHMENT 3

Table 1. Closure Criteria Determination**Site Name: General Kehoe Tank Battery**

Spill Coordinates:		X: 32.2534057	Y: -104.0535332
Site Specific Conditions		Value	Unit
1	Depth to Groundwater	55	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	3,492	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	6,633	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	3,313	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	6,447	feet
	ii) Within 1000 feet of any fresh water well or spring	22,944	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	3,449	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low
10	Within a 100-year Floodplain	> 100	year
NMAC 19.15.29.12 E (Table 1) Closure Criteria		51-100'	<50' 51-100' >100'

Column1
Critical
High
Medium
Low

Column1
Yes
No

<50'
51-100'
>100'



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q Q Q				X	Y	Distance	Depth Well	Depth Water	Water Column		
				64	16	4	Sec								
C 02186		C	ED	2	02	24S	28E	589128	3568606*	312	100	55	45		
C 02198		C	ED	1	01	24S	28E	589940	3568611*	843	78				
C 00511		C	ED	2	3	02	24S	28E	588518	3568001*	1115	268	140	128	
C 00318		C	ED	2	4	4	34	23S	28E	587811	3569298*	1395	150		
C 03862 POD2		CUB	ED	3	3	3	01	24S	28E	589665	3567507	1499	30	10	20
C 03862 POD1		CUB	ED	3	3	3	01	24S	28E	589672	3567505	1504	17	10	7
C 03862 POD3		CUB	ED	3	3	3	01	24S	28E	589685	3567500	1513	60	10	50
C 03862 POD4		CUB	ED	3	3	3	01	24S	28E	589705	3567490	1529	30	10	20
C 03862 POD5		CUB	ED	4	3	3	01	24S	28E	589785	3567458	1589	17	10	7
C 02184		C	ED	2	4	3	01	24S	28E	590248	3567700*	1636	87	60	27
C 03535 POD1		C	ED	4	3	3	25	23S	28E	589860	3570751	1964	210	25	185
C 01082		CUB	ED	3	3	2	11	24S	28E	588832	3566693*	2247	120		
C 00475		CUB	ED	2	1	3	25	23S	28E	589822	3571347*	2519	144	38	106
C 01442		C	ED	1	2	10	24S	28E	587298	3567199*	2529	100			
C 01237		C	ED	1	1	2	10	24S	28E	587197	3567298*	2540	123		
C 00136 A		CUB	ED	4	4	4	25	23S	28E	591037	3570753*	2629	100	60	40
C 01747		CUB	ED			12	24S	28E	590367	3566577*	2636	176	139	37	
C 01240		C	ED	1	3	34	23S	28E	586494	3569592*	2744	125	25	100	
C 03001 EXPLORE		CUB	ED	1	1	4	25	23S	28E	590430	3571355*	2751	140		
C 00571 CLW241602	O	CUB	ED	3	3	3	30	23S	29E	591241	3570757*	2782	89	38	51
C 01232		C	ED	2	3	1	34	23S	28E	586592	3570095*	2819	150		
C 03615 POD1		CUB	ED	1	3	2	06	24S	29E	591964	3568500	2840	60	36	24
C 00574		CUB	ED	2	4	4	11	24S	28E	589452	3566081*	2852	200	20	180
C 00571		CUB	ED	1	3	3	30	23S	29E	591241	3570957*	2918	90	38	52
C 00573		CUB	ED	2	2	4	04	24S	28E	586188	3568087*	3079	250	35	215
C 00570		CUB	ED	1	1	10	24S	28E	586490	3567195*	3172	100	28	72	

*UTM location was derived from PLSS - see Help

(A CLW##### in the
POD suffix indicates the
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water right file.)

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O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q Q Q			X	Y	Distance	Depth Well	Depth Water	Water Column				
				64	16	4	Sec	Tws								
C 01443	C	ED		2	1	25	23S	28E	590123	3572064*		3292	50	27	23	
C 00136	CUB	ED		3	1	2	25	23S	28E	590426	3571967*		3304	200	42	158
C 00136 CLW194026	O	CUB	ED	3	1	2	25	23S	28E	590426	3571967*		3304	200	52	148
C 00136 CLW235233	O	CUB	ED	3	1	2	25	23S	28E	590426	3571967*		3304	200	42	158
C 01122	CUB	ED		1	1	1	26	23S	28E	587999	3572138*		3421	175	30	145
C 00464	CUB	ED		2	2	1	13	24S	28E	590277	3565674*		3432	111	28	83
C 03732 POD1	C	ED		1	3	3	27	23S	28E	586321	3570929		3474	171	10	161
C 00738	CUB	ED		3	1	1	13	24S	28E	589673	3565472*		3484	125	12	113
C 00618	C	ED		3	4	4	12	24S	28E	590880	3565885*		3489	80	40	40
C 00136 S	CUB	ED		1	1	2	25	23S	28E	590426	3572167*		3489	122	45	77
C 02524 POD2	C	ED		2	2	2	15	24S	28E	587814	3565690*		3494	90	11	79
C 00903	C	ED		2	1	13	24S	28E	590178	3565575*		3495	57	30	27	
C 02306	C	ED		3	2	04	24S	28E	585690	3568382*		3505	75	25	50	
C 00329	C	ED		2	1	2	13	24S	28E	590682	3565677*		3582	95	30	65
C 00684	CUB	ED		2	1	2	13	24S	28E	590682	3565677*		3582	95	40	55
C 01154	C	ED		2	1	2	13	24S	28E	590682	3565677*		3582	95	50	45
C 00890	CUB	ED		3	3	4	10	24S	28E	587211	3565897*		3591	50		
C 00983	C	ED		4	4	4	12	24S	28E	591080	3565885*		3592	92	40	52
C 03615 POD2	CUB	ED		4	2	4	06	24S	29E	592661	3568013		3622	60	26	34
C 00346	C	ED		2	2	15	24S	28E	587715	3565591*		3624	90	32	58	
C 03432 POD1	C	ED		1	2	2	27	23S	28E	587527	3572162		3629	115	75	40
C 00381	C	CUB	ED	3	2	07	24S	29E	591682	3566297*		3641	2797			
C 00488	C	ED		2	1	2	15	24S	28E	587412	3565688*		3669	64	8	56
C 00869 S-2	O	CUB	ED	3	3	23	23S	28E	588097	3572444*		3681	150	58	92	
C 00764	CUB	ED		3	1	3	10	24S	28E	586399	3566292*		3805	118	25	93
C 02182	C	ED		4	30	23S	29E			592328	3571048*		3822	75	30	45
C 01938	C	ED		2	4	28	23S	28E		586085	3571205*		3827	80	3	77
C 02713	CUB	ED		4	4	1	16	24S	29E	591633	3565944		3871	230	18	212
C 00641	C	ED		2	2	1	27	23S	28E	586986	3572126*		3872	115	40	75

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(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-		Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
	Q	Q															
C 03974 POD1	C	ED	C	2	2	1	27	23S	28E	587087	3572220		3896	75	43	32	
C 00869	CUB	ED	CUB	3	3	4	22	23S	28E	587188	3572335*		3942	360			
C 00962	C	ED	C	3	3	10	24S	28E	586505	3565992*		3946	63	9	54		
C 00443	C	ED	C	4	2	4	22	23S	28E	587790	3572745*		4063	171	160	11	
C 03146	C	ED	C	1	1	3	24	23S	28E	589613	3572970*		4078	82	36	46	
C 00340	C	ED	C	1	1	27	23S	28E	586483	3572022*		4095	117	18	99		
C 02057	C	ED	C	1	4	14	24S	28E	588956	3564774*		4148	126	52	74		
C 01870	C	ED	C	4	3	22	23S	28E	586885	3572432*		4183	105	48	57		
C 00481	C	ED	C	3	2	1	33	23S	28E	585182	3570283*		4200	225	190	35	
C 03703 POD1	C	ED	C	1	2	1	09	24S	28E	585259	3567225		4246	74	15	59	
C 00453	C	ED	C	2	2	4	22	23S	28E	587790	3572945*		4252	65			
C 03706 POD1	C	ED	C	3	4	4	22	21S	27E	584939	3569812		4308	200			
C 03831 POD1	C	ED	C	4	3	1	33	23S	28E	584939	3569812		4308	300	52	248	
C 00500	CUB	ED	CUB	4	3	1	24	23S	28E	589811	3573176*		4309	130			
C 00868	CUB	ED	CUB	4	3	1	24	23S	28E	589811	3573176*		4309	190			
C 03132	C	ED	C	1	2	4	15	24S	28E	587616	3564877*		4323	90	19	71	
C 01472	CUB	ED	CUB	2	3	2	28	23S	28E	585730	3571652		4382	162	10	152	
C 02836	C	ED	C	2	2	2	16	24S	28E	586203	3565676*		4383		15		
C 02847	CUB	ED	CUB	2	1	4	22	23S	28E	587386	3572941*		4394	80			
C 02849	CUB	ED	CUB	2	1	4	22	23S	28E	587386	3572941*		4394	60			
C 00048	CUB	ED	CUB	3	3	1	23	23S	28E	587997	3573160		4397	182	75	107	
C 00048	C	CUB	C	3	3	1	23	23S	28E	587997	3573160		4397	182	75	107	
C 00750	CUB	ED	CUB	1	2	4	13	24S	28E	590898	3564871*		4406	110			
C 00024	O	CUB	ED		3	22	23S	28E	586682	3572629*		4459	242	48	194		
C 04202 POD1	R	C	ED	4	3	3	28	23S	28E	585049	3570665		4462	400	60	340	
C 00094	CUB	ED	CUB	3	4	2	22	23S	28E	587588	3573151*		4513	100	60	40	
C 00094	C	CUB	ED	3	4	2	22	23S	28E	587588	3573151*		4513	100	60	40	
C 00094 A	C	CUB	ED	3	4	2	22	23S	28E	587588	3573151*		4513	166	40	126	
C 03965 POD4	CUB	ED		1	4	24	23S	28E	589918	3573381		4528	40	31	9		

*UTM location was derived from PLSS - see Help

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(NAD83 UTM in meters)

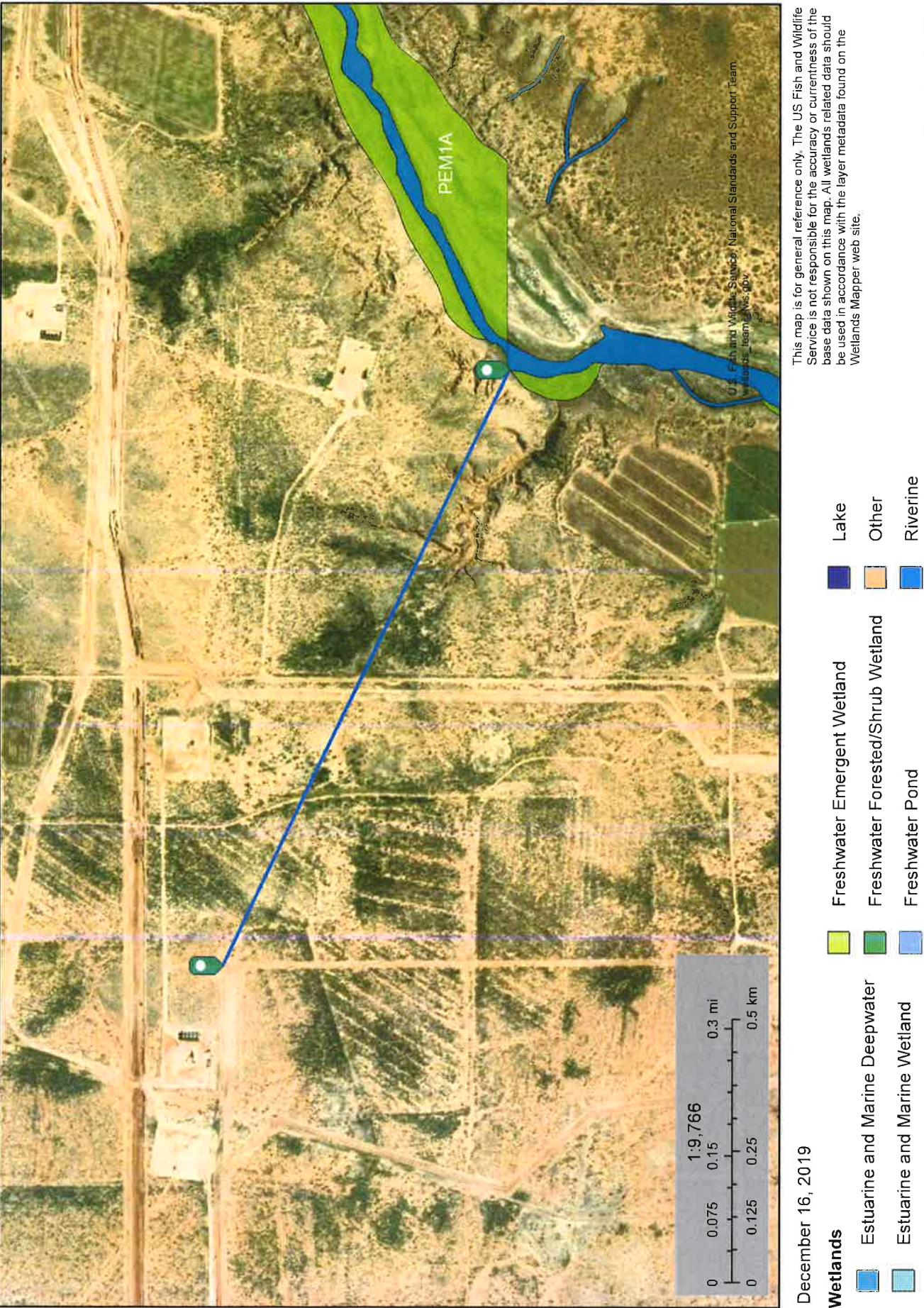
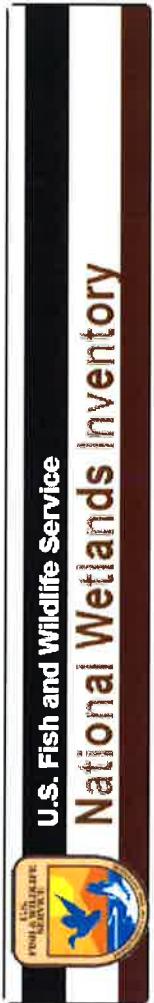
(In feet)

POD Number	POD Sub-		Code	basin	County	Q Q Q			X	Y	Distance	Depth Well	Depth Water	Water Column		
	64	16	4	Sec	Tws	Rng										
C 02796	CUB	ED	2	3	22	23S	28E	586882	3572838*		4531	200				
C 03587 POD1	CUB	ED	1	4	3	29	23S	29E	593338	3570754		4569	99	44	55	
C 01816	C	ED	1	3	1	23	23S	28E	587992	3573355*		4587	200	40	160	
C 03965 POD5	CUB	ED	4	1	1	24	23S	28E	589864	3573534		4671	35	31	4	
C 00154	CUB	ED	4	2	1	23	23S	28E	588595	3573566*		4682	196	38	158	
C 01731	C	ED	4	2	05	24S	28E	584483	3568367*		4703	80	30	50		
C 00154 CLW194067	O	CUB	3	2	1	23	23S	28E	588395	3573566*		4710	150	65	85	
C 01108	C	ED	3	2	1	23	23S	28E	588395	3573566*		4710	60	35	25	
C 00349	C	CUB	ED	1	3	18	24S	29E	591401	3564773*		4714	2734			
C 01487 CLW201796	O	CUB	ED	3	2	22	23S	28E	587284	3573247*		4716	90	30	60	
C 03824 POD1	CUB	ED	4	1	2	16	24S	28E	585770	3565578		4753	290	60	230	
C 01102	C	ED	1	2	23	23S	28E	588901	3573672*		4761	100	12	88		
C 00353	C	CUB	ED	3	4	13	24S	28E	590603	3564367*		4775	2726			
C 01487	CUB	ED	3	4	1	22	23S	28E	586779	3573142*		4846	150	38	112	
C 00094 AS	C	CUB	ED	1	3	2	22	23S	28E	587183	3573346*		4847	165	40	125
C 03587 POD2	CUB	ED	1	2	4	19	23S	29E	592213	3572706		4869	77	16	61	
C 00354	C	CUB	ED	4	4	13	24S	28E	591005	3564367*		4912	2739			
C 00327	CUB	ED	3	2	4	21	23S	28E	585974	3572728*		4963	212			

Average Depth to Water: **40 feet**Minimum Depth: **3 feet**Maximum Depth: **190 feet****Record Count:** 102**UTMNAD83 Radius Search (in meters):****Easting (X):** 589153.88**Northing (Y):** 3568917.39**Radius:** 5000***UTM location was derived from PLSS - see Help**

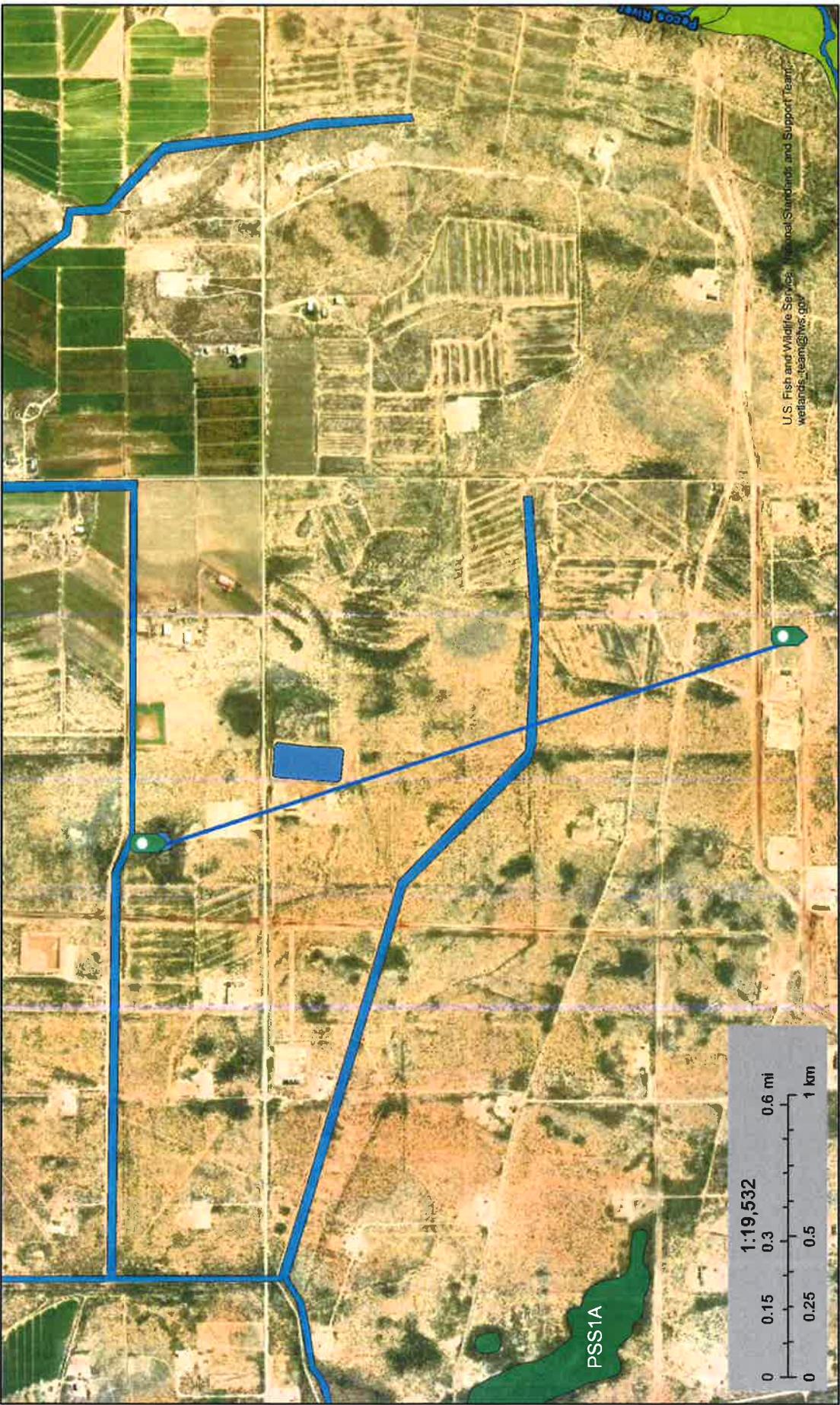
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

General Kehoe Battery - 3,492 ft to River



National Wetlands Inventory (NW)
This page was produced by the NW mapper

General Kehoe Battery - 6,633 ft to pond



December 16, 2019
Wetlands

- Lake
- Other
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currency of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NW)
This page was produced by the NW mapper

General Kehoe Tank Battery

Distance to Residence: 3,313 feet

Legend

- General Kehoe Tank Battery
- Residence



12/16/2019

nmwrrs.ose.state.nm.us/nmwrrs/ReportDispatcher?type=WRHTML&name=WaterRightSummaryHTML.jrxml&basin=C&nbr=03535&suffix=

New Mexico Office of the State Engineer Water Right Summary

WR File Number: C 03535 Subbasin: C Cross Reference: -

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 1 Cause/CASE: -

Owner: COLEY BURGESS

Documents on File

Trn #	Doc	File/Act	Status			From/	To	Acres	Diversion	Consumptive
			1	2	Transaction Desc.					
495562_72121	2012-02-22		PMT	LOG	C 03535	T				1

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q				X	Y	Other Location Desc
			64	Q16	Q4Sec	Tws Rng			
C 03535 POD1		Shallow	4	3	3	25	23S	28E	589860 3570751 WELL ADDRESS: 208 RABBIT HILL

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/16/19 2:58 PM

WATER RIGHT SUMMARY

12/16/2019

nmwrrs.ose.state.nm.us/nmwrrs/ReportDispatcher?type=WRHTML&name=WaterRightSummaryHTML.jrxml&basin=C&nbr=00318&suffix=

New Mexico Office of the State Engineer Water Right Summary



WR File Number: C 00318 Subbasin: C Cross Reference: -

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: EXP EXPIRED

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: CAVENDER & RICHARDSON

Documents on File

Trn #	Doc	File/Act	Status		From/		Acres	Diversion	Consumptive
			1	2	Transaction Desc.	To			
198441	get images	72121 1952-04-18	EXP	EXP	C 00318	T			3

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	X	Y	Other Location Desc
C 00318		64Q16Q4Sec Tws Rng	2 4 4 34 23S 28E	587811	3569298*	NW CORNER

An () after northing value indicates UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/16/19 2:57 PM

WATER RIGHT SUMMARY

12/16/2019

nmwrrs.ose.state.nm.us/nmwrrs/ReportDispatcher?type=WRHTML&name=WaterRightSummaryHTML.jrxml&basin=C&nbr=02084&suffix=



New Mexico Office of the State Engineer
Water Right Summary

WR File Number: C 02084 Subbasin: C Cross Reference: -



Primary Purpose: DOL 72-12-1 DOMESTIC AND LIVESTOCK WATERING

Primary Status: EXP EXPIRED

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: JIM BURLESON

Documents on File

Trn #	Doc	File/Act	Status		From/		Acres	Diversion	Consumptive
			1	2	Transaction Desc.	To			
468394	72121	1984-01-17	EXP	EXP	C 02084	T		3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
C 02084				1	3	01	24S	28E		589741	3568003*	

An () after northing value indicates UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/16/19 2:57 PM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer Active & Inactive Points of Diversion (with Ownership Information)

(R=POD has been replaced
and no longer serves this file,
(quarters are 1=NW 2=NE 3=SW 4=SE)
C=the file is closed)

WR File Nbr	Sub basin	Use	Diversion Owner	County POD Number	Well	Tag	Code	Grant	Source 6416 4 Sec			X	Y	Distance				
									q	q	q							
C_02186	C	PRO	0 GRACE DRILLING CO.	ED C_02186					1	01	24S	28E	589128	3566606*	312			
C_02198	C	PRO	0 MCVAY DRILLING COMPANY	ED C_02198					1	3	01	24S	28E	589940	3566611*	843		
C_02084	C	DOL	0 JIM BURLESON	ED C_02084					2	3	02	24S	28E	589741	3568003*	1086		
C_00511	C	PRO	0 RICHARDSON & BASS	ED C_00511					Shallow	2	3	02	24S	28E	588518	3568001*	1115	
C_00318	C	DOM	0 CAVENDER & RICHARDSON	ED C_00318					2	4	34	23S	28E	587811	3569298*	1395		
C_03862	CUB	EXP	0 ENVIRO DRILL INC	ED C_03862 POD2				NON	Shallow	3	3	01	24S	28E	589664	3567507	1499	
				ED C_03862 POD1				NON	Shallow	3	3	01	24S	28E	589672	3567505	1504	
				ED C_03862 POD3				NON	Shallow	3	3	01	24S	28E	589685	3567500	1513	
				ED C_03862 POD4				NON	Shallow	3	3	01	24S	28E	589705	3567490	1529	
				ED C_03862 POD5				NON	Shallow	4	3	01	24S	28E	589785	3567458	1589	
C_02184	C	PRO	0 SANTA FE ENERGY OPER. PARTNERS	ED C_02184					Shallow	2	4	3	01	24S	28E	590248	3567700*	1636
C_03535	C	DOM	1 COLEY BURGESS	ED C_03535 POD1					Shallow	4	3	25	23S	28E	589860	3570751*	1965	
C_01148	CUB	IRR	0 GUITAR EARL	ED C_01148					4	4	2	36	23S	28E	591041	3569943*	2147	
C_01303	CUB	IRR	39.97 SARAH M. WISDOM ANNIS	ED C_01303					Shallow	4	4	2	36	23S	28E	591041	3568199*	2147
C_00006	CUB	IRR	0 W H SWEARINGEN	ED C_00006					03	24S	28E						2147	
C_00802	CUB	IRR	120 ALBERTO DUARTE	ED C_00802					3	3	2	11	24S	28E	588832	3566693*	2247	
C_01082	CUB	IRR	240 DAMON U. BOND	ED C_01082					Shallow	3	3	2	11	24S	28E	588832	3566693*	2247
C_00475	CUB	IRR	178.5 JOY SUE GIOVENGO WELLS	ED C_00475					Shallow	2	1	3	25	23S	28E	589822	3571347*	2519

*UTM location was derived from PLSS - see Help

12/16/19 2:55 PM

Page 1 of 9

WR File Nbr	Sub basin	Use	Diversion	Owner	County POD Number	Well Tag	Code	Grant	Source	6416 4 Sec	Tws	Rng	X	Y	Distance			
							q	q	q	1	2	10	24S	28E				
<u>C_01442</u>	C DOM	0	FRANK WILLIAMS	ED <u>C_01442</u>					Shallow	1	1	2	10	24S	28E	587298	3567199*	2529
<u>C_01237</u>	C DOL	3 S. F.	WILLIAMS	ED <u>C_01237</u>					Shallow	1	1	2	10	24S	28E	587197	3567298*	2539
<u>C_00136 A</u>	CUB IRR	306	JOHNNIE AND SHARON GIOVENGO	ED <u>C_00136 A</u>					Shallow	4	4	4	25	23S	28E	591037	3570753*	2629
<u>C_03122</u>	C DOL	3	JOHNNIE GIOVENGO, JR.	ED <u>C_00136 A</u>					Shallow	4	4	4	25	23S	28E	591037	3570753*	2629
<u>C_01747</u>	CUB EXP	0	GEORGE BRANTLEY	ED <u>C_01747</u>					Shallow	1	2	12	24S	28E		590367	3566577*	2636
<u>C_00555</u>	C DOM	0 C.F.	BEEMAN	ED <u>C_00555</u>					4	2	3	11	24S	28E	588626	3566296*	2674	
<u>C_03868</u>	C DOL	3	EFRAIN RIOS	ED <u>C_03868 POD1</u>					3	4	2	10	24S	28E	587679	3566685	2674	
<u>C_03349</u>	C DOL	0	JOE MORMAN	ED <u>C_03349</u>					3	3	4	27	23S	28E	587168	3570739	2695	
<u>C_01240</u>	C STK	3 T. R.	CAVINESS	ED <u>C_01240</u>					Shallow	1	3	34	23S	28E		586494	3569592*	2744
<u>C_03001</u>	CUB EXP	0	JOHNNIE GIOVENGO	ED <u>C_03001 EXPLORE</u>					Shallow	1	1	4	25	23S	28E	590430	3571355*	2751
<u>C_01232</u>	C STK	3 T. R.	CAVINESS	ED <u>C_01232</u>					Shallow	2	3	1	34	23S	28E	586592	3570095*	2819
<u>C_03615</u>	CUB MON	0	SOUTHWEST SALT COMPANY LLC	ED <u>C_03615 POD1</u>					Shallow	1	3	2	06	24S	29E	5919633	3568500	2840
<u>C_00574</u>	CUB IRR	55.05	TOMMY JR. OR CARLA DUARTE	ED <u>C_00574</u>					Shallow	2	4	4	11	24S	28E	589452	3566081*	2852
<u>C_00574 A</u>	CUB IRR	119.4	PEDRO A. DUARTE	ED <u>C_00574</u>					Shallow	2	4	4	11	24S	28E	589452	3566081*	2852
<u>C_00053</u>	CUB IRR	0	ANTONIO CARDONA	ED <u>C_00053</u>					2	3	1	25	23S	28E	589820	3571753*	2912	
<u>C_00571</u>	CUB IRR	362.4	JOHNNIE GIOVENGO, JR.	ED <u>C_00571</u>					Shallow	1	3	3	30	23S	29E	591241	3570957*	2918
<u>C_03121</u>	C DOL	3	JOHNNIE GIOVENGO, JR.	ED <u>C_00571</u>					Shallow	1	3	3	30	23S	29E	591241	3570957*	2918
<u>C_01930</u>	C DOL	0	OSCAR F VASQUEZ	ED <u>C_01930</u>					3	4	11	24S	28E		588941	3565989*	2936	
<u>C_04351</u>	CUB MON	0	ARCADIS US INC/CHEVRON	ED <u>C_04351 POD2</u>	NA				4	2	3	27	23S	28E	586927	3571040	3076	
<u>C_00573</u>	CUB IRR	260.1	GUADALUPE & YSABEL O. VASQUEZ	ED <u>C_00573</u>					Shallow	2	2	4	04	24S	28E	586188	3568087*	3079
<u>C_04351</u>	CUB MON	0	ARCADIS US INC/CHEVRON	ED <u>C_04351 POD1</u>	NA				3	2	3	27	23S	28E	586807	3571025	3154	
<u>C_03952</u>	C DOL	3	ZACH STENSrud	ED <u>C_03952 POD1</u>					1	2	2	04	24S	28E	585984	3568930	3169	

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WR File Nbr	Sub basin	Use	Diversion	Owner	(acre ft per annum)				(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)						
					Well	Tag	Code	Grant	Source	6416 4	Sec	Tws	Rng	X	Y
					ED	C 00570		Shallow	1 1	10	24S 28E	586490	3567195*	3172	
<u>C 00570</u>	CUB	IRR	0	FRANK Z. VASQUEZ	ED	<u>C 03990 POD1</u>	NON		1 4 4	10	24S 28E	587626	3566115	3191	
<u>C 03990</u>	C	STK	3	JIMMY J VASQUEZ	ED	<u>C 01238</u>			1 1	25	23S 28E	589718	3572060*	3192	
<u>C 01238</u>	C	STK	3	S. F. WILLIAMS	ED	<u>C 03383 POD1</u>			2 3 3	27	23S 28E	586626	3570894	3209	
<u>C 03383</u>	C	STK	0	BILLY MELTON	ED	<u>C 04288 POD1</u>			1 4 3	27	23S 28E	586696	3570985	3211	
<u>C 04288</u>	CUB	MON	0	CHEVRON ENVIRONMETAL MGNT CO	ED	<u>C 00580</u>	NA		3 3 3	11	24S 28E	588017	3565903*	3221	
<u>C 00580</u>	CUB	IRR	0	GUILLERMO RUIZ	ED	<u>C 02497</u>			3 2 3	27	23S 28E	586791	3571114*	3226	
<u>C 02497</u>	C	DOL	0	D S DUNN	ED	<u>C 02713 POD2</u>			Shallow	1 2 2	06	24S 29E	592389	3568849	3236
<u>C 02713</u>	CUB	IND	645	RED BLUFF WATER POWER CONTROL DISTRICT	ED	<u>C 03737 POD1</u>			2 2 1	26	23S 28E	588519	3572124	3269	
<u>C 03737</u>	C	DOL	0	JOHNNY REID	ED	<u>C 01443</u>			Shallow	2 1	25	23S 28E	590123	3572064*	3292
<u>C 01443</u>	C	STK	3	S. F. WILLIAMS	ED	<u>C 00136</u>			Shallow	3 1 2	25	23S 28E	590426	3571967*	3304
<u>C 00136</u>	CUB	IRR	657	JOHN OR JANICE WRIGHT	ED	<u>C 04262</u>	20753		2 1 2	14	24S 28E	588966	3565581	3340	
<u>C 04262</u>	C	DOL	3	OYBAR LAND & CATTLE, LLC	ED	<u>C 01090</u>			2 2	06	24S 29E	592563	3568831*	3410	
<u>C 01090</u>	CUB	EXP	0	VALLEY LAND COMPANY	ED	<u>C 01091</u>			2 2	06	24S 29E	592563	3568831*	3410	
<u>C 01091</u>	CUB	EXP	0	VALLEY LAND CO.	ED	<u>C 04267</u>	1 JOHN E RUIZ		1 1 1	14	24S 28E	587980	3565706	3418	
<u>C 04267</u>	C	SAN	1	VICTOR QUEEN	ED	<u>C 01122</u>			Shallow	1 1 1	26	23S 28E	587999	3572138*	3421
<u>C 01122</u>	CUB	IRR	0	ROXIE L. WILLIAMS TRUST	ED	<u>C 00464</u>			Shallow	2 2 1	13	24S 28E	590277	3565674*	3432
<u>C 00464</u>	CUB	IRR	314-245	HENRY E McDONALD	ED	<u>C 01766</u>			3 3 4	23	23S 28E	588806	3572354*	3454	
<u>C 01766</u>	CUB	IRR	375	ROXIE L. WILLIAMS TRUST	ED	<u>C 01766</u>			3 3 4	23	23S 28E	588806	3572354*	3454	
<u>C 01766 A</u>	CUB	IRR	15	WOODROW AND RUBY BURKHAM O MCCARTY O.J	ED	<u>C 01290</u>			1 2	04	24S 28E	585690	3568781*	3466	
<u>C 01290</u>	C	STK	3	BILLY MELTON	ED	<u>C 03732 POD1</u>	NON		Shallow	1 3 3	27	23S 28E	586321	3570929	3474
<u>C 03732</u>	CUB	IRR	343-5	W.J. BURKHAM	ED	<u>C 00738</u>			Shallow	3 1 1	13	24S 28E	589673	3565472*	3484

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WR File Nbr	Sub basin	Use	Diversion	Owner	County POD Number	Well Tag	Code Grant	Source	q q q	q q q	X	Y	Distance		
	C DOM	3 ANNA LANDRUM	ED C 00618	Shallow	6416 4 Sec	Tws	Rng	Shallow	3 4 4	12	24S	28E	3489		
C 00618	CUB IRR	657 JOHN OR JANICE WRIGHT	ED C 00136 S	Shallow	1 1 2	25	23S	28E	590426	3572167*			3489		
C 00136	C DOM	3 TONY LOPEZ	ED C 02524	Shallow	2 2 2	15	24S	28E	587814	3565690*			3494		
C 02524			ED C 02524 POD2	Shallow	2 2 2	15	24S	28E	587814	3565690*			3494		
C 02674	C DOM	1 ALICE RUIZ	ED C 02674	2077B	2 2 2	15	24S	28E	587814	3565690			3494		
C 00903	C DOL	3 HENRY McDONALD	ED C 00903	Shallow	2 1	13	24S	28E	590178	3565575*			3495		
C 02469	C DOM	0 FELIPE BARRERA	ED C 02469	Shallow	2	33	23S	28E	598888	3570187*			3503		
C 02306	C DOM	3 RUSS DUNBAR	ED C 02306	Shallow	3 2	04	24S	28E	585690	3568382*			3504		
C 01704	C DOL	0 ALBERTO H GUTIERREZ JR	ED C 01704	Shallow	2 4	4	28	23S	28E	586187	3570897*			3566	
C 03175	C DOM	0 RAYMOND LUNSFORD	ED C 03175	Shallow	1 2	2	27	23S	28E	587595	3572134*			3574	
C 00329	C DOM	3 DEKALB AGRI ASSOC. INC.	ED C 00329	Shallow	2 1	2	13	24S	28E	590682	3565677*			3582	
C 00684	CUB IRR	0 EASTLAND OIL CO.	ED C 00684	Shallow	2 1	2	13	24S	28E	590682	3565677*			3582	
C 01154	C PRO	0 MORRIS R. ANTWEIL	ED C 01154	Shallow	2 1	2	13	24S	28E	590682	3565677*			3582	
C 00890	CUB DOM	3 M.G. CLEAVELAND	ED C 00890	Shallow	3 3	4	10	24S	28E	587211	3565897*			3591	
C 00983	C DOM	3 E J ROGERS	ED C 00983	Shallow	4	4	12	24S	28E	591080	3565885*			3592	
C 00868	CUB IRR	936.42 DRAPER BRANTLEY, JR.	ED C 00869 S2	Shallow	3	3	3	23	23S	28E	587996	3572343*			3615
C 00868 A	CUB IRR	528.671 HENRY E MC DONALD	ED C 00869 S2	Shallow	3	3	3	23	23S	28E	587996	3572343*			3615
C 00868 B	CUB IRR	300 HENRY E. OR JACKIE DALE MCDONALD	ED C 03615 POD2	Shallow	4	2	4	06	24S	28E	592661	3568013			3622
C 03615	CUB MON	0 SOUTHWEST SALT COMPANY LLC	ED C 03615 POD2	Shallow	2	2	15	24S	28E	587715	3565591*			3624	
C 00346	C SAN	3 MALAGA SCHOOL	ED C 00346	Shallow	1	2	2	27	23S	28E	587527	3572162			3629
C 03432	C DOM	1 RAYMOND LUNSFORD	ED C 03432 POD1	C	3	2	3	07	24S	28E	591682	3566297*			3641
C 00381	CUB CLS	0 TENNESSEE PRODUCING CO.	ED C 00381												

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WR File Nbr	Sub basin	Use	Diversion	Owner	County POD Number	Well Tag	Code Grant	Source 6416 4 Sec Tws Rng				X	Y	Distance		
								q	q	q	q					
C 00488	C DOM	3 CID		ED C 00488				Shallow	2	1	2	15	24S 28E	587412	3565688*	3669
C 03436	C DOM	1 JOE L. HERNANDEZ		ED C 03436 POD1					2	1	2	27	23S 28E	587348	3572143	3697
C 04382	CUB MON	0 BRANSON PROPERTIES LLC		ED C 04382 POD1	NA				2	1	2	15	24S 28E	587401	3565647	3709
C 03642	C DOL	0 EFRAIN RIOS		ED C 03642 POD1	NA				3	3	1	10	24S 28E	5863772	3566453	3715
C 00319	CUB IRR	0 YARBO ARVIL RAY		ED C 00319					1	3	2	33	23S 28E	585586	3570085*	3753
C 01306	CUB EXP	0 T.R. CAVINNESS		ED C 01306					1	3	2	33	23S 28E	585586	3570085*	3753
C 00764	CUB IRR	117.9 MIKE M. VASQUEZ		ED C 00764				Shallow	3	1	3	10	24S 28E	586399	3566292*	3805
C 00764 A	C PRO	0 SANTA FE ENERGY		ED C 00764				Shallow	4	30	23S 29E		592328	3571048*	3822	
C 02182	C DOM	3 EDDIE P CAVALIER		ED C 01938				Shallow	2	4	28	23S 28E	586085	3571205*	3805	
C 01938	CUB MON	0 BRANSON PROPERTIES LLC		ED C 04383 POD1	NA				4	1	2	15	24S 28E	587389	3565499	3846
C 04383	CUB IRR	936.42 DRAPER BRANTLEY, JR.		ED C 00869 S				Shallow	4	3	4	22	23S 28E	587388	3572335*	3846
C 00868	CUB IRR	528.671 HENRY E MC DONALD		ED C 00869 S				Shallow	4	3	4	22	23S 28E	587388	3572335*	3846
C 00868 A	CUB IND	645 RED BLUFF WATER POWER CONTROL DISTRICT		ED C 02713				Shallow	4	4	1	16	24S 29E	591633	3565944	3871
C 02713	C PRO	0 REEF EXPLORATION		ED C 02713				Shallow	4	4	1	16	24S 29E	591633	3565944	3871
C 03360	C DOM	3 SANTOS PARRAZ		ED C 00641				Shallow	2	2	1	27	23S 28E	586986	3572126*	3872
C 00641	C DOM	0 D S DUNN		ED C 02599					2	2	1	27	23S 28E	586986	3572126*	3872
C 02599	C DOM	1 JAVIER SIERRA		ED C 03974 POD1				Shallow	2	2	1	27	23S 28E	587087	3572220	3896
C 03974	CUB IRR	936.42 DRAPER BRANTLEY, JR.		ED C 00869				Shallow	3	3	4	22	23S 28E	587188	3572335*	3942
C 00868	CUB IRR	528.671 JACKIE D MC DONALD		ED C 00869				Shallow	3	3	4	22	23S 28E	587188	3572335*	3942
C 00868 A	CUB IRR	300 HENRY E. OR JACKIE DALE McDONALD		ED C 00869				Shallow	3	3	4	22	23S 28E	587188	3572335*	3942
C 00868 B	C STK	3 H F WALKER		ED C 00962				Shallow	3	3	10	24S 28E	586505	3565992*	3946	

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ACTIVE & INACTIVE POINTS OF DIVERSION

WR File Nbr	Sub basin	Use	Diversion	Owner	County POD Number	Well Tag	Code	Grant	Source	q q q	q q q	X	Y	Distance
					ED C 00443	ED	C 00443	ED	6416 4 Sec	Tws	Rng	Shallow	23S 28E	3572745*
<u>C 00443</u>	C DOM	3	NIEVES B. JASSO						Shallow	1 1 3	24	23S 28E	5899613	3572970*
<u>C 03146</u>	C DOL	3	DRAPER BRANTLEY JR						Shallow	1 1	27	23S 28E	5864833	3572022*
<u>C 00340</u>	C DOM	3	SERAPIO PARROZ						Shallow	1 4	14	24S 28E	588956	3564774*
<u>C 02057</u>	C PRO	0	POGO PRODUCING CO.						Shallow	4 3	22	23S 28E	5868885	3572432*
<u>C 01870</u>	C DOL	3	JAMES L MCCLARY						Shallow	3 2 1	33	23S 28E	585182	3570283*
<u>C 00481</u>	C DOM	0 J. B. MOORE							Shallow	1 2 1	09	24S 28E	585259	3567225
<u>C 03703</u>	C DOM	1	BLACK RIVER PROPERTY						Shallow	2 2 4	22	23S 28E	5872945*	4246
<u>C 00453</u>	C DOM	3	MAXIMIANO JASSO						2 3	13	24S 28E	590194	3564770*	
<u>C 00768</u>	CUB IRR	0	MARCELO P. NAVARRETTE						2 1 3	33	23S 28E	584952	3569766	
<u>C 03852</u>	C STK	3	MITCHELL BALLARD						3 4 4	22	21S 27E	584939	3569812	
<u>C 03706</u>	C STK	0	WINSTON BALLARD						Shallow	4 3 1	33	23S 28E	584939	3569812
<u>C 03831</u>	C DOM	1	MITCHELL BALLARD						4 3 1	24	23S 28E	5899811	3573176*	
<u>C 00500</u>	CUB IRR	200.13	C.A. CARRASCO, JR.						Shallow	4 3 1	24	23S 28E	5899811	3573176*
<u>C 00868</u>	CUB IRR	936.42	DRAPER BRANTLEY, JR.						Shallow	4 3 1	24	23S 28E	5899811	3573176*
<u>C 00868 A</u>	CUB IRR	528.671	JACKIE D MC DONALD						Shallow	4 3 1	24	23S 28E	5899811	3573176*
<u>C 00868 B</u>	CUB IRR	300	HENRY E. OR JACKIE DALE MCDONALD						Shallow	4 3 1	24	23S 28E	5899811	3573176*
<u>C 03132</u>	C DOL	3	BRANTLEY BROTHERS						Shallow	1 2 4	15	24S 28E	587616	3564877*
<u>C 01961</u>	C DOL	0	DRAPER BRANTLEY JR						1 4	22	23S 28E	587287	3572842*	
<u>C 02266</u>	C DOM	3	ROBERT HIGGINS						3 2 3	13	24S 28E	590093	3564669*	
<u>C 01472</u>	CUB IRR	435.9	ONSUREZ VICTOR F						Shallow	2 3 2	28	23S 28E	585730	3571652
<u>C 03545</u>	C PRO	0	VICTOR ONSUREZ						Shallow	2 3 2	28	23S 28E	585730	3571652
<u>C 03546</u>	C PRO	0	COG OPERATING LLC						Shallow	2 3 2	28	23S 28E	585730	3571652

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WR File Nbr	Sub basin	Use	Diversion	Owner	(acre ft per annum)	Well Tag	Code	Grant	County POD Number				Source	q q q	q q q	X	Y	Distance
									ED	C 01472	Shallow	2 3 2	28	23S	28E			
C 03547	C PRO	0 COG OPERATING LLC		ED C 02799		2 2 2	16	24S	28E	586203	3565676*	3565676*	3565676*	3565676*	3565676*	3565676*	4383	
C 02799	C DOL	0 EFREN B COLLINS		ED C 02836		Shallow	2 2 2	16	24S	28E	586203	3565676*	3565676*	3565676*	3565676*	3565676*	3565676*	4383
C 02836	C STK	3 EFREN COLLINS		ED C 02847		2 1 4	22	23S	28E	587386	3572941*	3572941*	3572941*	3572941*	3572941*	3572941*	4394	
C 02847	CUB COM	40 DRAPER BRANTLEY JR		ED C 02849		2 1 4	22	23S	28E	587386	3572941*	3572941*	3572941*	3572941*	3572941*	3572941*	4394	
C 02849	CUB COM	40 HENRY McDONALD		ED C 00048		C				Shallow	3 3 1	23	23S	28E	587997	3573160	3573160	4397
C 00048	CUB CLS	0 JOHHNY L. REID		ED C 00048		Shallow	3 3 1	23	23S	28E	587997	3573160	3573160	3573160	3573160	3573160	3573160	4397
C 00048 1	CUB IRR	124,589 JACKIE REID		ED C 00048		Shallow	3 3 1	23	23S	28E	587997	3573160	3573160	3573160	3573160	3573160	3573160	4397
C 00048 2	CUB STO	0.739 JOHHNY L REID		ED C 00048		Shallow	3 3 1	23	23S	28E	587997	3573160	3573160	3573160	3573160	3573160	3573160	4397
C 00048 A	CUB CLS	0 WILLIAM & MARIA T STENNIS REVOCABLE TRUST		ED C 00048		Shallow	3 3 1	23	23S	28E	587997	3573160	3573160	3573160	3573160	3573160	3573160	4397
C 00154	CUB CLS	0 JOHNNY L. REID		ED C 00048		Shallow	3 3 1	23	23S	28E	587997	3573160	3573160	3573160	3573160	3573160	3573160	4397
C 00750	CUB IRR	74.7 BETH ANN BOTROS		ED C 00750		20757		NON		Shallow	1 2 4	13	24S	28E	590898	3564871*	3564871*	4406
C 04202	C SAN	1 BLAKELY CONSTRUCTION CO		ED C 04202 POD2		ED C 04202 POD1	206B1	R	NON	4 3 3	28	23S	28E	585072	3570655	3570655	4435	
C 00048	CUB CLS	0 JOHHNY L. REID		ED C 04202 POD1		ED C 00094		C		Shallow	4 3 3	28	23S	28E	585048	3570665	3570665	4461
C 00094 A	CUB CLS	0 DOROTHY W. QUEEN		ED C 00094		ED C 00094		C		Shallow	3 4 2	22	23S	28E	587588	3573151*	3573151*	4513
C 00154	CUB CLS	0 JOHNNY L. REID		ED C 00094		ED C 00094		C		Shallow	3 4 2	22	23S	28E	587588	3573151*	3573151*	4513
C 01137	CUB EXP	0 MORRIS R. ANTWEIL		LE C 01137		ED C 03965 POD4				Shallow	3 4 2	22	23S	28E	587588	3573151*	3573151*	4513
C 03965	CUB MON	0 ROCKCLIFF OPERATING NM LLC		ED C 02796		ED C 03965 POD4				Shallow	1 4	13	24S	28E	590696	3564670*	3564670*	4518
C 02796	CUB MON	0 IMC		ED C 03587 POD1		ED C 03587 POD1				Shallow	2 3	22	23S	28E	586882	3572838*	3572838*	4531
C 03587	CUB MON	0 MOSAIC POTASH CARLSBAD INC		ED C 01816		ED C 01816				Shallow	1 4	3	29	23S	593337	3570754	3570754	4569
C 01816	C DOL	3 A R DONALDSON								Shallow	1 3	1	23	23S	587992	3573355*	3573355*	4587

*UTM location was derived from PLSS - see Help

12/16/19 2:55 PM

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ACTIVE & INACTIVE POINTS OF DIVERSION

WR File Nbr	Sub basin	Use	Diversion	Owner	Well Tag	Code	Grant	Source	6416 4 Sec	Tws Rng	X	Y	Distance	
	(acre ft per annum)					q	q	q	2 3 1	24	23S	28E		
<u>C 03965</u>	CUB MON	0	ROCKCLIFF OPERATING NM	LLC	ED <u>C 03965 POD1</u>	ED	<u>C 03965 POD2</u>	2 3 1	24	23S	28E	589799	3573463	
<u>C 00154</u>	CUB CLS	0	JOHNNY L. REID		ED <u>C 00154</u>	ED	<u>C 03965 POD5</u>	Shallow	4 1 1	24	23S	28E	589891	3573473
<u>C 03965</u>	CUB MON	0	ROCKCLIFF OPERATING NM	LLC	ED <u>C 03965 POD3</u>	ED	<u>C 03965 POD4</u>	Shallow	4 2 1	23	23S	28E	589864	3573534
<u>C 01731</u>	C STK	0	BRANTLEY BROTHERS	3 HECTOR N VALDEZ	ED <u>C 01731</u>	ED	<u>C 03756 POD1</u>	Shallow	4 2 1	24	23S	28E	588595	3573566*
<u>C 03756</u>	C STK	0	WILLIAM & MARIA T STENNIS REVOCABLE TRUST	0 JOHNNY L. REID	ED <u>C 03756 POD2</u>	ED	<u>C 00154 POD1</u>	NON	1 4 4	15	24S	28E	588395	3564476
<u>C 00048 A</u>	CUB CLS	0	WILLIAM & MARIA T STENNIS REVOCABLE TRUST	0 JOHNNY L. REID	ED <u>C 00154 POD2</u>	ED	<u>C 03606 POD2</u>	C	3 2 1	23	23S	28E	588395	3573566*
<u>C 00154</u>	CUB CLS	0	CLARENCE REID	3 CLARENCE REID	ED <u>C 01108</u>	ED	<u>C 00154 POD1</u>	Shallow	3 2 1	23	23S	28E	588395	3573566*
<u>C 01108</u>	C STK	0	E.L. WILSON	0 E.L. WILSON	ED <u>C 00349</u>	ED	<u>C 03606 POD1</u>	C	1 3	18	24S	29E	591401	3564773*
<u>C 00349</u>	CUB CLS	0	VICTOR F. ONSURREZ	0 VICTOR F. ONSURREZ	ED <u>C 03606 POD1</u>	ED	<u>C 03978 POD1</u>	NON	3 3 3	28	23S	28E	584810	3570765
<u>C 03606</u>	CUB EXP	0	EFREN COLLINS	0 EFREN COLLINS	ED <u>C 03978 POD1</u>	ED	<u>C 03606 POD1</u>	NA	2 1 2	16	24S	28E	5855804	3565591
<u>C 03978</u>	CUB EXP	0	KB SERVICES LLC	1 KB SERVICES LLC	ED <u>C 04352 POD1</u>	ED	<u>C 04352 POD1</u>	22447	4 2 1	16	24S	28E	585798	3565591
<u>C 04352</u>	C DOM	0	ZULEMA F COLLINS	0 ZULEMA F COLLINS	ED <u>C 04198 POD1</u>	ED	<u>C 04198 POD1</u>	NA	2 1 2	16	24S	28E	585779	3565600
<u>C 04198</u>	CUB EXP	0	HENRY E MCDONALD	246.959 HENRY E MCDONALD	ED <u>C 00024 S</u>	ED	<u>C 00024 S</u>	1 3	22	23S	28E	586478	3572834*	
<u>C 00024</u>	CUB IRR	0	CONCHO OIL & GAS	0 CONCHO OIL & GAS	ED <u>C 03824 POD1</u>	ED	<u>C 03824 POD1</u>	Shallow	4 1 2	16	24S	28E	585770	3565578
<u>C 03824</u>	CUB EXP	0	CONCHO OIL & GAS	0 CONCHO OIL & GAS	ED <u>C 03824 POD1</u>	ED	<u>C 03824 POD1</u>	Shallow	4 1 2	16	24S	28E	585770	3565578
<u>C 03880</u>	C PRO	0	CONCHO OIL & GAS	0 CONCHO OIL & GAS	ED <u>C 03824 POD1</u>	ED	<u>C 03824 POD1</u>	Shallow	4 1 2	16	24S	28E	585770	3565578
<u>C 03881</u>	C PRO	0	DEKALB AGRICULTURAL ASSOC.	3 C. L. REID	ED <u>C 01102</u>	ED	<u>C 01102</u>	Shallow	1 2	23	23S	28E	588901	3573672*
<u>C 00353</u>	CUB CLS	0	DEKALB AGRICULTURAL ASSOC.	3 C. L. REID	ED <u>C 00353</u>	ED	<u>C 00353</u>	C	3 4	13	24S	28E	590603	3564367*

*UTM location was derived from PLSS - see Help

12/16/19 2:55 PM

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ACTIVE & INACTIVE POINTS OF DIVERSION

WR File Nbr	Sub basin	Use	Diversion	Owner	County POD Number	Well Tag	Code Grant	Source	6416 4 Sec	Tws Rng	X	Y	Distance
					ED C_01266			q q q	4 2 16	24S 28E	586106	3565171*	4829
C_01266	CUB IRR	0 HAROLD WALKER						Shallow	3 4 1 22	23S 28E	586779	3573142*	4846
C_01487	CUB IRR	226 8 JAVIER S. & BRETHA A. JASSO			ED C_01487			Shallow	3 4 1 22	23S 28E	586779	3573142*	4846
C_02913	C DOL	3 JAVIER S JASSO			ED C_02913			Shallow	1 3 2 22	23S 28E	587183	3573346*	4847
C_00094_A	CUB CLS	0 DOROTHY W. QUEEN			ED C_00094_AS			Shallow	1 2 4 19	23S 29E	592213	3572706	4869
C_03587	CUB MON	0 MOSAIC POTASH CARLSBAD INC			ED C_03587_POD2			Shallow	3 2 4 21	23S 28E	585974	3572728*	4963
C_00354	CUB CLS	0 DEKALB AGRICULTURAL ASSN. INC			ED C_00354			Shallow	3 2 4 21	23S 28E	585974	3572728*	4963
C_00024	CUB IRR	246.959 HENRY E MCDONALD			ED C_00327			Shallow	3 2 4 21	23S 28E	585974	3572728*	4963
C_00327	CUB IRR	269.881 HENRY E MCDONALD			ED C_00327			Shallow	3 2 4 21	23S 28E	585974	3572728*	4963

Record Count: 180UTM NAD83 Radius Search (in meters):**Easting (X):** 589153.8**Northing (Y):** 3568917.39**Radius:** 5000Sorted by: Distance

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOS/ISC and is accepted by the recipient with the expressed understanding that the NMOS/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usefulness, or suitability for any particular purpose of the data.

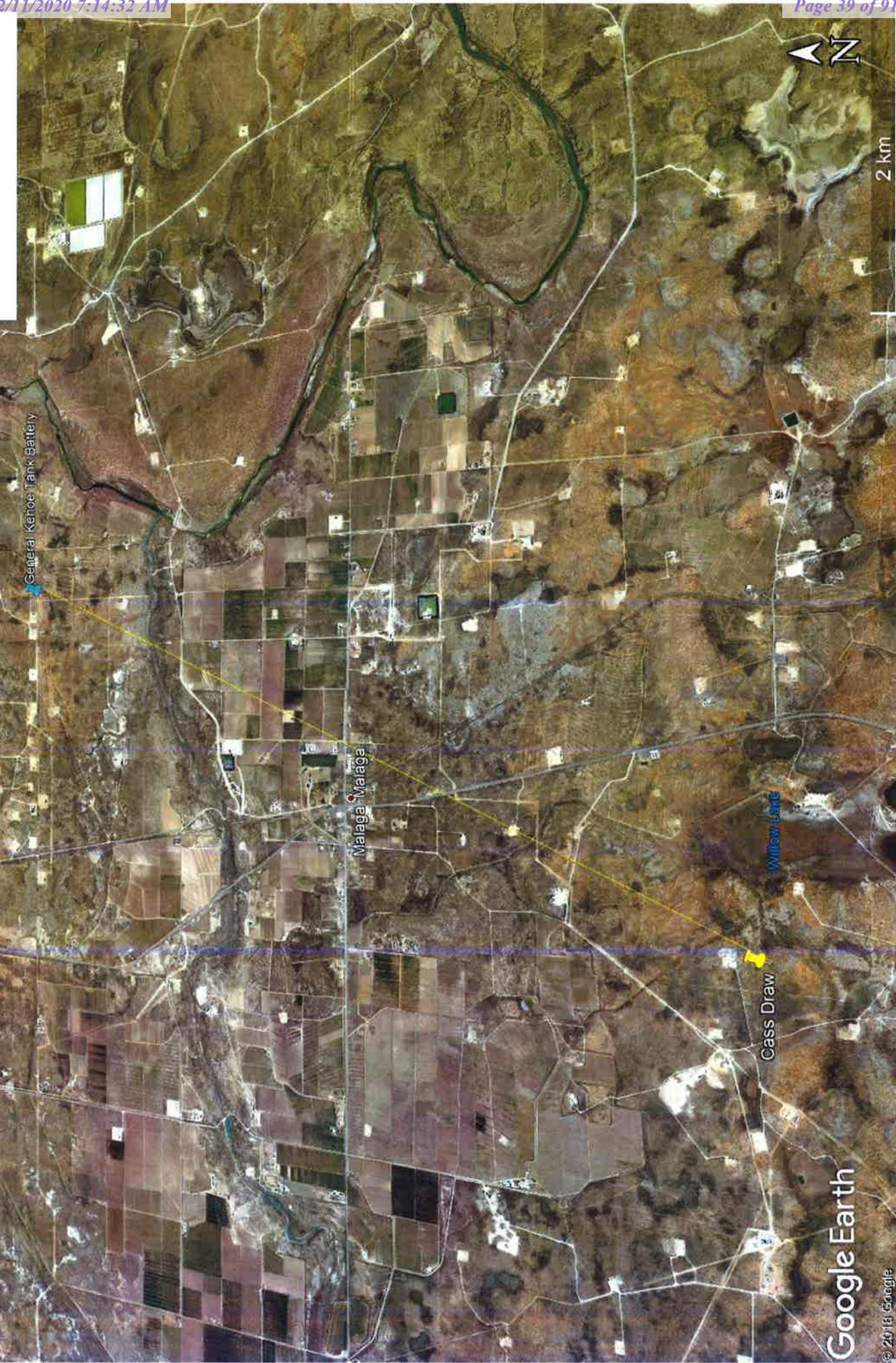
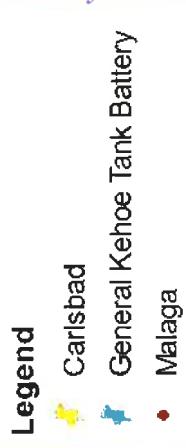
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ACTIVE & INACTIVE POINTS OF DIVERSION

General Kehoe Tank Battery

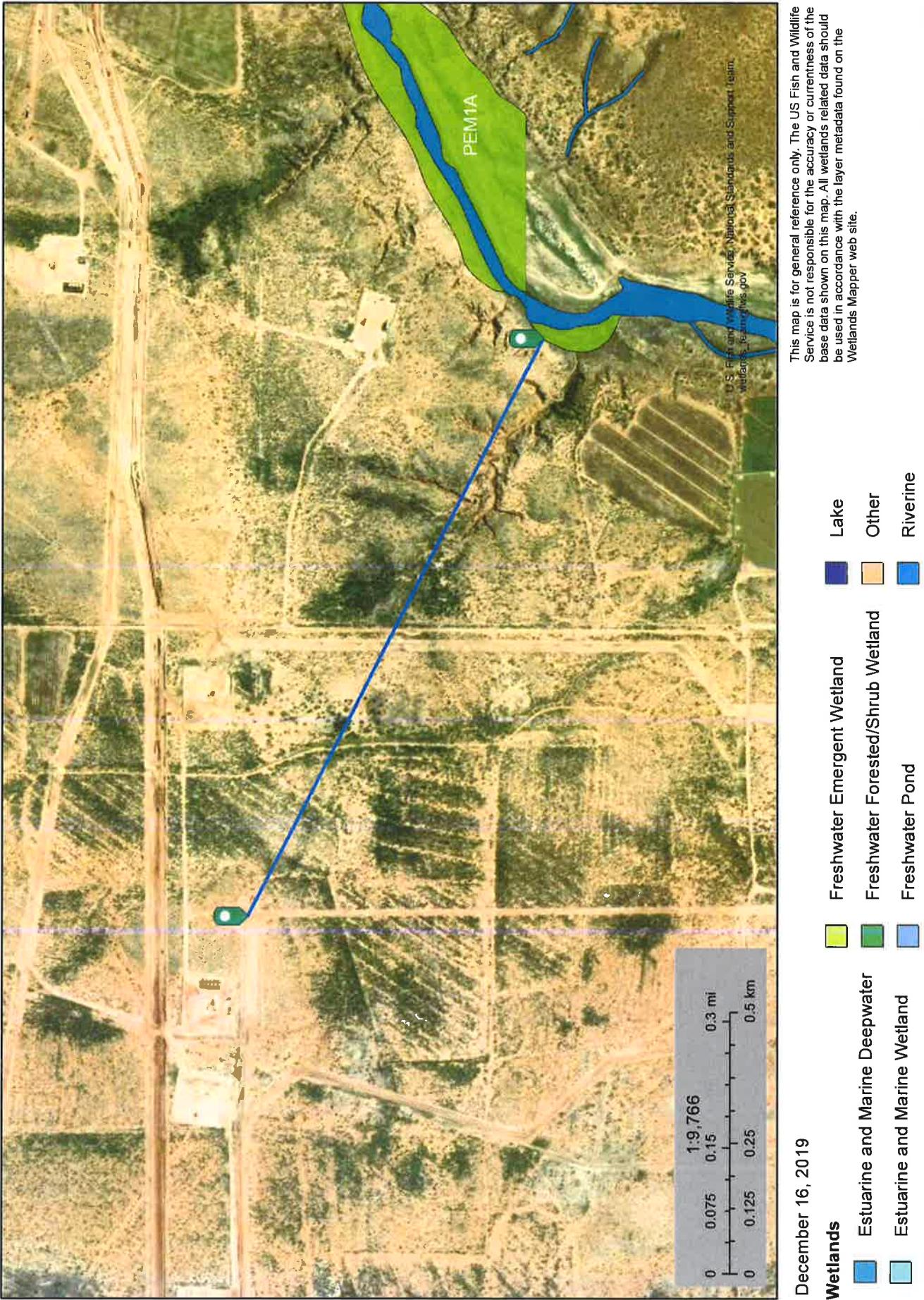
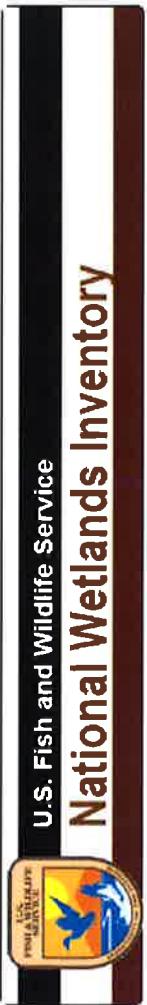
Distance to Spring: 22,944 feet



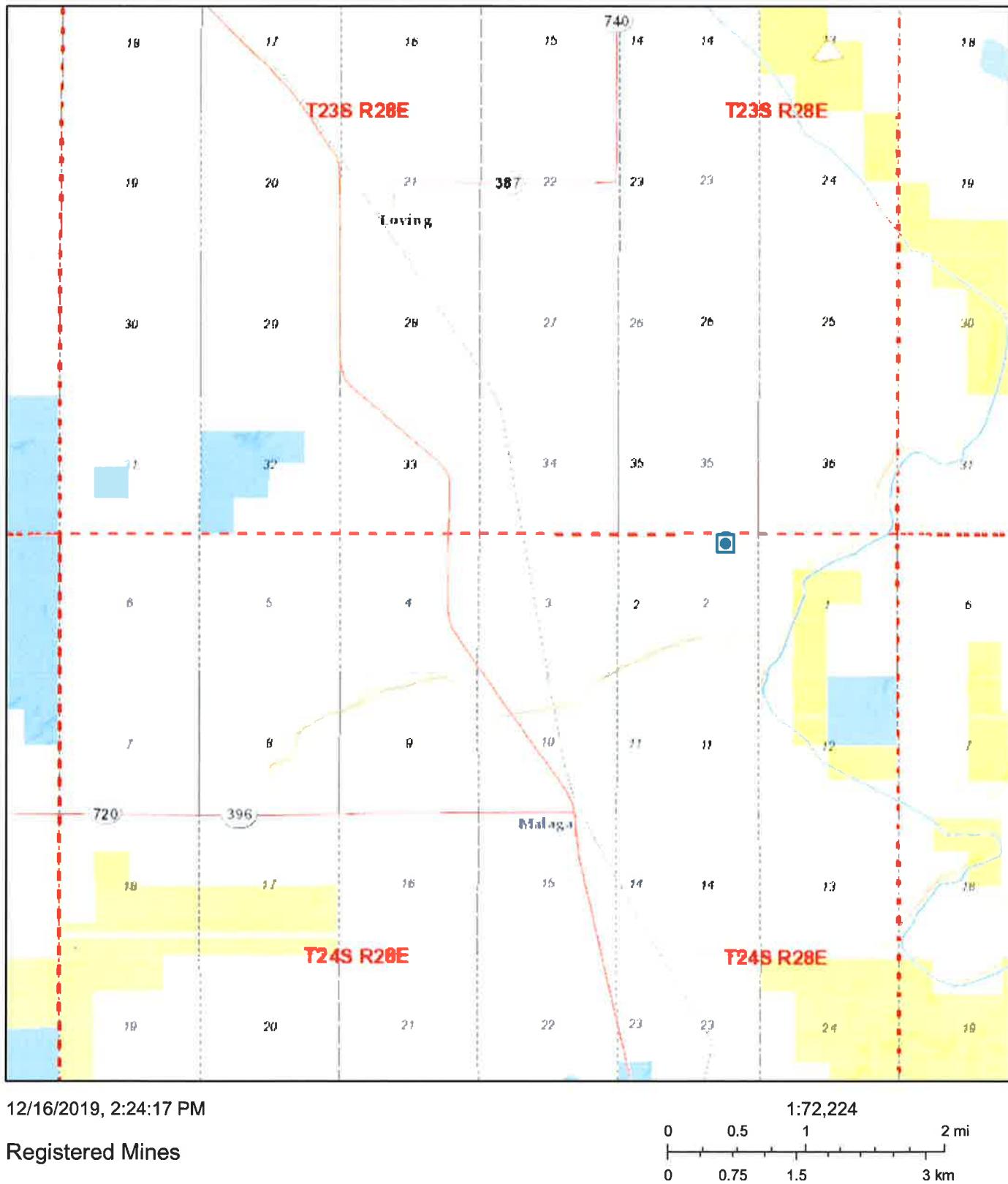
Google Earth

© 2018 Google

General Kehoe - 3,449 ft to Wetland



Active Mines - General Kehoe Tank Battery



12/16/2019, 2:24:17 PM

Registered Mines

Aggregate, Stone etc.



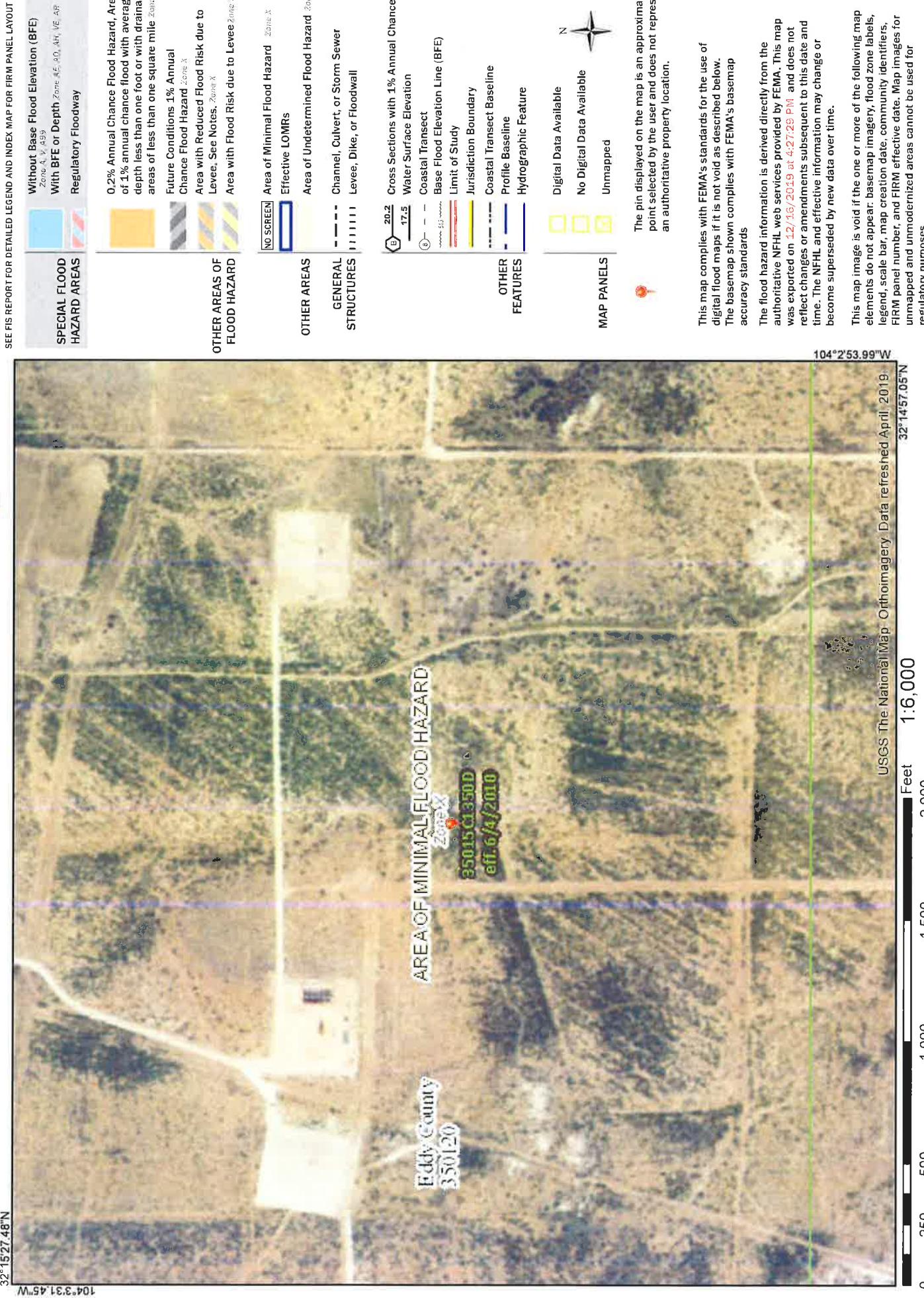
Salt

U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

National Flood Hazard Layer FIRMette



Legend



R042XC007NM — Loamy Ecological Site

Plant Community Photos

Plant Communities Photo Display & Descriptive Diagnosis

MLRA 42; SD-3; Loamy

Grassland



- Tobosa-black grama, some yucca and prickly pear
- Grass cover moderate, distributed fairly uniform
- Few large bare patches

Grassland



- Tobosa-burrograss, with some black grama and scattered prickly pear
- Grass cover moderate
- Few large bare patches
- Russel silt loam

Transition towards shrub Dominated



- Tarbush / burrograss, with some tobosa
- Fine textured calcareous soils
- Bare patches evident
- Soil surface sealing
- Reagan silt loam

Shrub-Dominated

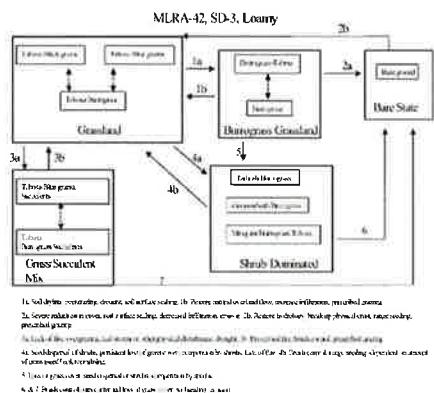


- Mesquite / burrograss, with scattered patches of tobosa
- Sandy surface over finer textured soils
- Grass cover moderate to low
- Bare patches evident

Historic Climax Plant Community



Plant Communities and Transition's Pathways (diagram)



State Transition Diagram for R042XC007NM — Loamy Ecological Site

Ecological Dynamics Description

Overview: The Loamy site is associated with the Gyp Upland ecological site with which it intergrades. There is a pronounced increase in alkali sacaton along this interface. The loamy site is also associated with the Gravelly and Shallow ecological sites from which it receives run-on water. The Draw site often dissects Loamy sites and is distinguished from the Loamy site by increased production or greater densities of woody species. The historic plant community has a grassland aspect, dominated by grasses with shrubs and half-shrubs sparse and evenly distributed. Tobosa, black grama and blue grama are the dominant species. Retrogression within this state is characterized by a decrease in black and blue grama and an increase in burrograss. Continuous overgrazing and drought can initiate a transition to a Burrograss- Grassland state. Continued reduction in grass cover and resulting infiltration problems may eventually effect a change to a Bare State, with very little or no remaining grass cover. Alternatively, creosotebush, tarbush or mesquite may expand or invade. Transitions back to a Grassland State from a Bare or Shrub-Dominated state are costly and may not be economically feasible. Decreased fire frequency may play a part in the transition to the Grass/Succulent Mix state with increased amounts of cholla and prickly pear.



R042XC025NM — Shallow Ecological Site

Plant Community Photos

Plant Communities Photo Display & Descriptive Diagnosis

MLRA 42; SD-3; Shallow

Grass/Shrub mix



- Threecawns-black grama community
- Grass recovery following treatment with tebuconazole
- Transition back to Grass/Shrub mix

Shrub-Dominated

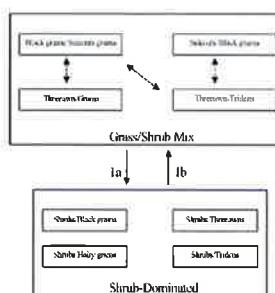


- Creosotebush-catclaw mimosa, with some broom snakeweed and a few scattered mesquite
- Grass cover (hairy tridens-black grama) patchy, large connected bare areas present
- Upon gravelly loam, Eddy Co , NM

Grass/Shrub Mix

Plant Communities and Transitional Pathways (diagram)

MLRA-42, SD-3, Shallow



1a: Extended drought, ungrazing, no fire
1b: Brush control, Prescribed grazing

State Transition Diagram for R042XC025NM — Shallow Ecological Site



Ecological Dynamics Description

Overview:

The Shallow site is associated with and Limestone Hills, Loamy, and Shallow Sandy sites. When associated with Limestone Hills, the Shallow site occurs on the summits, foot slopes and toeslopes of hills. Loamy sites often occur as areas between low elongated hills with rounded crests (Shallow site). When the Shallow Sandy site and Shallow site occur in association, the Shallow Sandy soils occupy the tops of low ridges and the Shallow site soils occur on the steeper sideslopes of the ridge. The historic plant community of the Shallow site has the aspect of a grassland/shrub mix, dominated by grasses, but with shrubs common throughout the site. Black grama is the dominant grass species; creosotebush, mesquite, and catclaw mimosa are common shrubs. Overgrazing and or extended drought can reduce grass cover, effect a change in grass species dominance, and may result in a shrub-dominated state. 1

Eddy Area, New Mexico

RI—Reeves loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w5p
Elevation: 1,250 to 4,800 feet
Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 120 to 225 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Reeves and similar soils: 98 percent
Minor components: 2 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

Landform: Plains, ridges, hills
Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope
Landform position (three-dimensional): Side slope, crest, nose slope, head slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Typical profile

Ap - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 25 percent
Gypsum, maximum in profile: 80 percent
Salinity, maximum in profile: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 4.0
Available water storage in profile: Low (about 4.3 inches)

Map Unit Description: Reeves loam, 0 to 1 percent slopes---Eddy Area, New Mexico

General Kehoe

Interpretive groups

*Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: B
Ecological site: Loamy (R042XC007NM)
Hydric soil rating: No*

Minor Components

Cottonwood

*Percent of map unit: 1 percent
Ecological site: Gyp Upland (R042XC006NM)
Hydric soil rating: No*

Karro

*Percent of map unit: 1 percent
Ecological site: Limy (R042XC030NM)
Hydric soil rating: No*

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 15, Sep 15, 2019



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

1/29/2020
Page 2 of 2

Eddy Area, New Mexico

Uo—Upton gravelly loam, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w67
Elevation: 1,100 to 4,400 feet
Mean annual precipitation: 7 to 15 inches
Mean annual air temperature: 60 to 70 degrees F
Frost-free period: 200 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 96 percent
Minor components: 4 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Upton

Setting

Landform: Fans, ridges
Landform position (three-dimensional): Side slope, rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 75 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s

Map Unit Description: Upton gravelly loam, 0 to 9 percent slopes---Eddy Area, New Mexico

General Kehoe

Hydrologic Soil Group: D
Ecological site: Shallow (R042XC025NM)
Hydric soil rating: No

Minor Components

Upton

Percent of map unit: 1 percent
Ecological site: Shallow (R042XC025NM)
Hydric soil rating: No

Atoka

Percent of map unit: 1 percent
Ecological site: Loamy (R042XC007NM)
Hydric soil rating: No

Atoka

Percent of map unit: 1 percent
Ecological site: Loamy (R042XC007NM)
Hydric soil rating: No

Reagan

Percent of map unit: 1 percent
Ecological site: Loamy (R042XC007NM)
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 15, Sep 15, 2019



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

1/29/2020
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ATTACHMENT 4

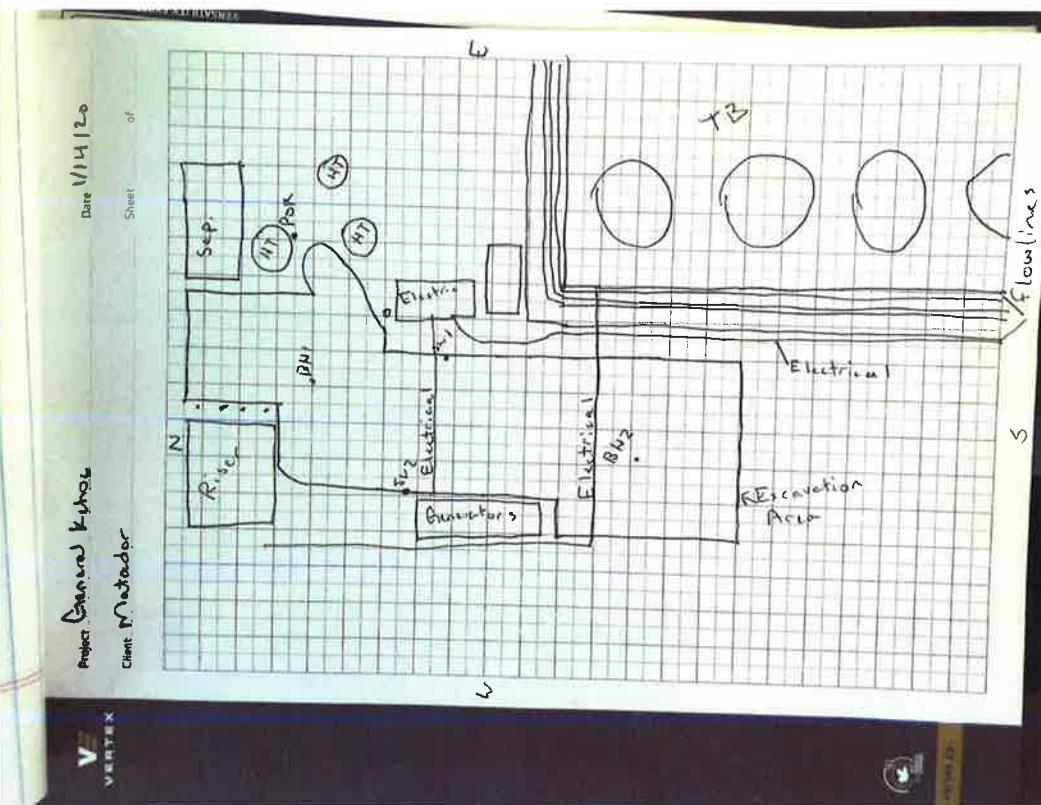


Daily Site Visit Report

Client:	Matador Resources	Inspection Date:	1/14/2020
Site Location Name:	General Kehoe Tank	Report Run Date:	1/15/2020 12:02 AM
Battery			
Project Owner:		File (Project) #:	
Project Manager:		API #:	
Client Contact Name:	John Hurt	Reference	
Client Contact Phone #:			
Summary of Times			
Left Office	1/14/2020 7:00 AM		
Arrived at Site	1/14/2020 7:45 AM		
Departed Site	1/14/2020 4:29 PM		
Returned to Office			

Daily Site Visit Report

Site Sketch



Daily Site Visit Report



16:26 Excavation	Summary of Daily Operations
	Next Steps & Recommendations

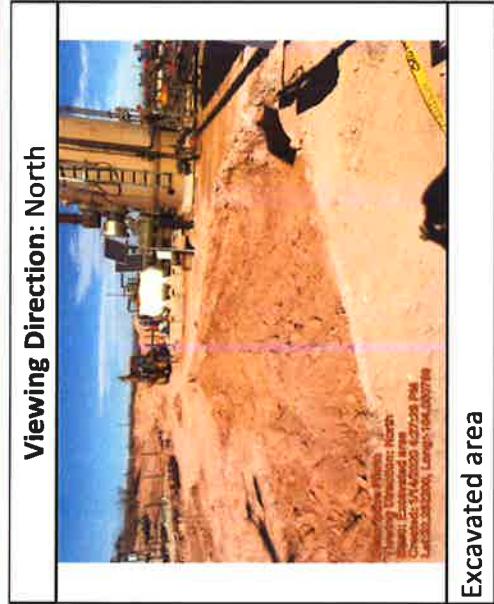
1

Daily Site Visit Report



VERTEX

Site Photos



Daily Site Visit Report



VERTEX

Daily Site Visit Signature

Inspector: Monica Peppin

Signature:

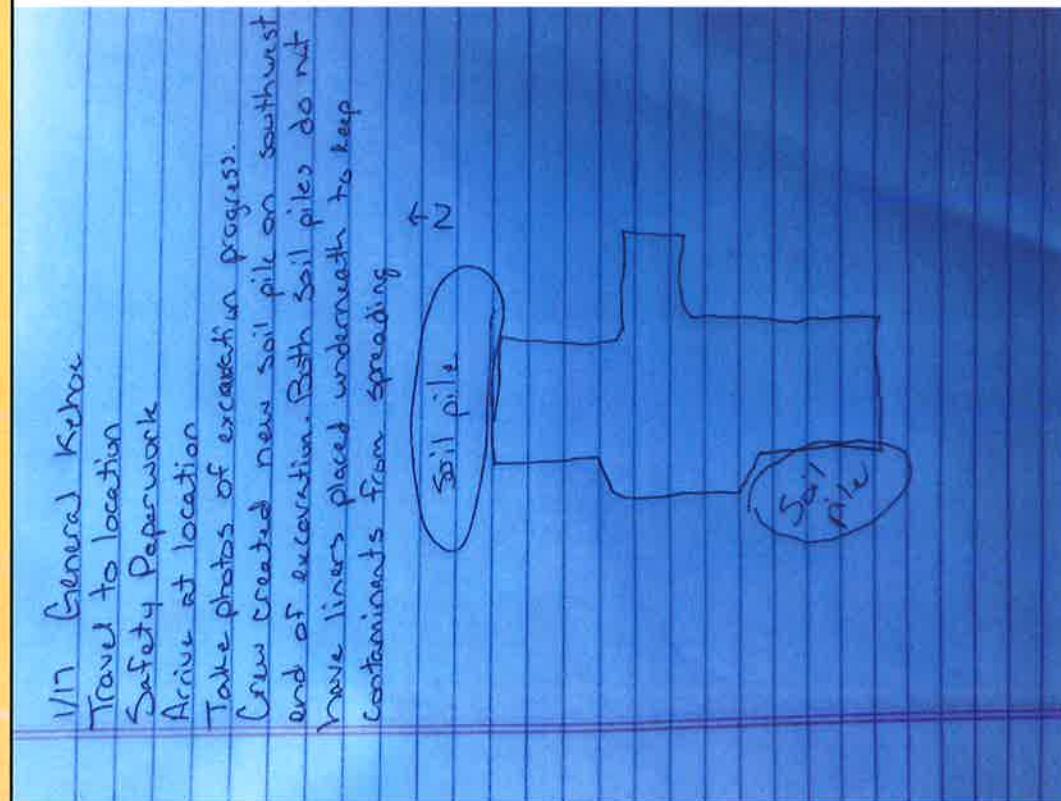
Daily Site Visit Report



Client:	Matador Resources	Inspection Date:	1/17/2020
Site Location Name:	General Kehoe Tank	Report Run Date:	1/18/2020 12:01 AM
Project Owner:	Battery	File (Project) #:	
Project Manager:		API #:	
Client Contact Name:	John Hurt	Reference	
Client Contact Phone #:			
Summary of Times			
Left Office	1/17/2020 3:00 PM		
Arrived at Site	1/17/2020 3:35 PM		
Departed Site	1/17/2020 3:48 PM		
Returned to Office			

Daily Site Visit Report

Site Sketch



Daily Site Visit Report



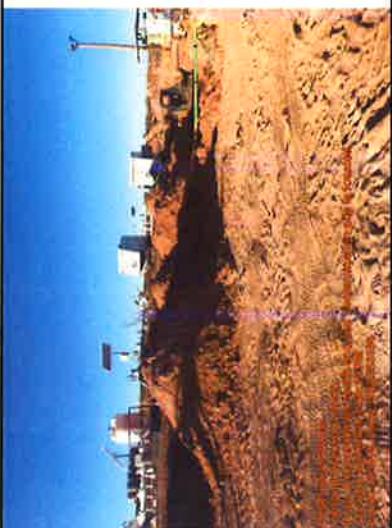
Summary of Daily Operations	
15:37 Travel to location Take photos of progress on excavation	

Next Steps & Recommendations	
1 Report findings 2 Travel back to office 3 Scan and file paperwork	

Daily Site Visit Report



Site Photos

Viewing Direction: North	Viewing Direction: East	Viewing Direction: West
 A photograph showing an excavator working on a dirt surface. In the background, there is a large, dark, rectangular pile of material, likely contaminated soil or debris, situated near some industrial structures under a clear blue sky.	 A photograph showing a long, narrow excavation trench. At the far end of the trench, there is a large, dark, rectangular pile of material, identified as a contaminated pile. The sky is clear and blue.	 A photograph showing a large, dark, rectangular pile of material, identified as a contamination pile. The sky is clear and blue.
Excavation on south end and contamination pile is located	Contaminated pile on north end of excavation	Contamination pile

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Monica Peppin

Signature:



Daily Site Visit Report

Client:	Matador Resources	Inspection Date:	1/20/2020
Site Location Name:	General Kehoe Tank	Report Run Date:	1/21/2020 12:27 AM
Battery			
Project Owner:		File (Project) #:	
Project Manager:	John Hurt	API #:	
Client Contact Name:		Reference	
Client Contact Phone #:			
Summary of Times			
Left Office	1/20/2020 2:00 PM		
Arrived at Site	1/20/2020 2:40 PM		
Departed Site	1/20/2020 4:10 PM		
Returned to Office			

Daily Site Visit Report

Site Sketch

Spill Response and Sampling

Metadate
1/20/20

Location	Description	Notes
East Bank	Soil & Surface water	Soil & Surface water
West Bank	Soil & Surface water	Soil & Surface water
Project Name	Project Name	Project Name
Project Manager	Project Manager	Project Manager
Project ID	Project ID	Project ID

Vertex

Spill Description

Sample ID	Location (ft)	VOC (ppm)	Precipitation (in)	Groundwater (ft)	Water Quality (in)	Date & Coordinates (Check for ref.)	Picture	Remarks	Coordinates
Ls_BH15.0	ls. 2ft	> 400 ppm	200 ppm	ls. 160ft	ls. 160ft	Ex. Hydrocarbon Chloride			
BS 1	3		50	1.34 / 1.71	31.00				
BS 2	3		67	1.12 / 1.75	31.15				
WS 1	0 - 3		91	1.59 / 1.73	31.50				
WS 2	0 - 3		30	0.96 / 1.73	31.45				
				1.00					

Daily Site Visit Report



Summary of Daily Operations					
14:41 Travel to location					
Safety paperwork					
Collect confirmation samples					
Field screen samples					
Pack samples					
Return to office					
Demobilization					
Next Steps & Recommendations					
1 Report to project manager					
2 Closure samples sent to lab					
Sampling					
ES-Base20-01					
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Reading ppm	Lab Analysis
3 ft.		56 ppm	Low (30-600 ppm)	1.36 ppm	Chloride (EPA 300.0), TPH (TX1005)
Picture	Trimble Location	Marked On Site Sketch?			
	,	Yes			

Daily Site Visit Report

Site Photos

 Viewing Direction: East Excavation area	 Viewing Direction: South Excavated area	 Viewing Direction: North Excavated area
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Daily Site Visit Report



Viewing Direction: North	 A photograph showing a large, dark brown soil pile against a bright blue sky. A yellow survey rod is visible in the upper left corner of the image frame.
Viewing Direction: West	 A photograph showing a second large, dark brown soil pile, similar in appearance to the first, against a bright blue sky. A yellow survey rod is visible in the upper left corner of the image frame.

Run on 1/21/2020 12:27 AM UTC

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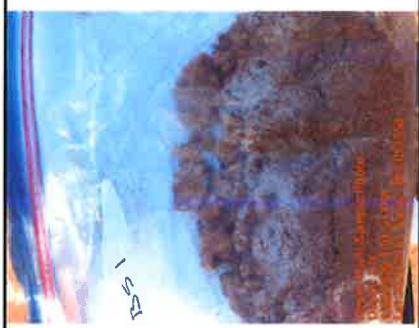
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Daily Site Visit Report



Depth Sample Photos

Sample Point ID: ES-Base20-01



Depth: 3 ft.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Monica Peppin

Signature:

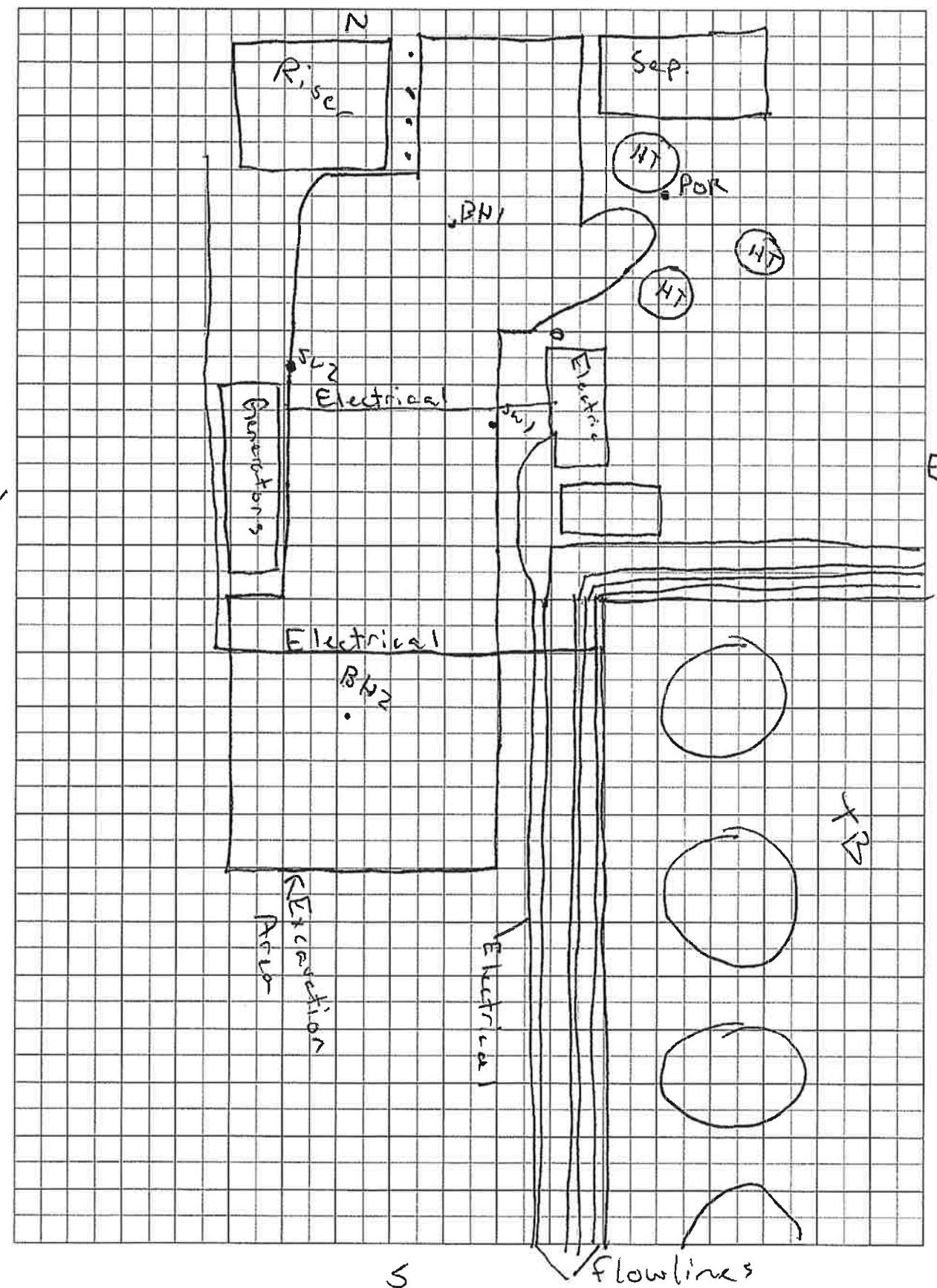


Project General Kehoe

Date 1/14/20

Client Matador

Sheet _____ of _____



ATTACHMENT 5

Natalie Gordon

From: Natalie Gordon
Sent: Thursday, January 9, 2020 5:08 PM
To: Mike Bratcher (mike.bratcher@state.nm.us); Victoria Venegas (Victoria.Venegas@state.nm.us); Robert Hamlet (Robert.Hamlet@state.nm.us); emnrd-ocd-district1spills@state.nm.us
Cc: John Hurt; Dennis Williams (DWilliams@vertex.ca); Dhugal Hanton (DHanton@vertex.ca)
Subject: General Kehoe Tank Battery 48-hr Sampling Notification - Matador Resources

All:

Please accept this email as 48-hr notification that Vertex Resource Services Inc. has scheduled confirmation sampling to be conducted at General Kehoe Tank Battery for an incident that occurred on 11/12/2019. No RP #/Incident # has been assigned at this time.

On January 14, 2020 beginning at 8:00 a.m., Vertex personnel will be onsite to collect confirmation samples for closure of the above referenced incident.

If you need assistance with directions to the site, or have any questions or concerns, please do not hesitate to contact me at 505-506-0040.

Thank you,
Natalie

ATTACHMENT 6

Client Name: Matador Production Company
 Site Name: General Kehoe Tank Battery
 Project #: 19E-04341-001
 Lab Report: 2001882

Table 2. Confirmatory Soil Samples - Depth to Groundwater 51 > 100 feet

Sample ID	Depth (ft)	Sample Date	Petroleum Hydrocarbons								Inorganic	
			Volatile		Extractable							
			Benzene	β TEX (Total)	Gasoline Range Organics (GRO)		Diesel Range Organics (DRO)		Motor Oil Range Organics (MRO)			
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BS 20-01	3	January 20, 2020	<0.024	<0.219	<4.9	31	<46	31	31	31	<60	
BS 20-02	3	January 20, 2020	<0.025	<0.221	<4.9	69	<50	69	69	69	80	
WS 20-01	1.5	January 20, 2020	<0.024	<0.220	<4.9	33	<45	33	33	33	380	
WS 20-02	1.5	January 20, 2020	<0.025	<0.222	<4.9	11	<50	11	11	11	170	
BG 1	0	January 14, 2020	-	-	-	-	-	-	-	-	<60	
BG 1	1	January 14, 2020	-	-	-	-	-	-	-	-	63	
BG 1	2	January 14, 2020	-	-	-	-	-	-	-	-	420	
BG 1	3	January 14, 2020	-	-	-	-	-	-	-	-	480	

Bold and shaded indicates exceedance outside of applied action level

ATTACHMENT 7



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

January 29, 2020

Natalie Gordon
Vertex Resource Group Ltd.
213 S. Mesa St
Carlsbad, NM 88220
TEL: (505) 506-0040
FAX

RE: General Kehoe

OrderNo.: 2001882

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 4 sample(s) on 1/22/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 2001882
 Date Reported: 1/29/2020

CLIENT: Vertex Resource Group Ltd.**Client Sample ID:** BS20-01**Project:** General Kehoe**Collection Date:** 1/20/2020 3:00:00 PM**Lab ID:** 2001882-001**Matrix:** SOIL**Received Date:** 1/22/2020 3:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	31	9.2		mg/Kg	1	1/23/2020 11:25:36 AM	Analyst: BRM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/23/2020 11:25:36 AM	
Surr: DNOP	107	55.1-146		%Rec	1	1/23/2020 11:25:36 AM	
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/24/2020 2:24:01 AM	Analyst: NSB
Surr: BFB	87.7	66.6-105		%Rec	1	1/24/2020 2:24:01 AM	
EPA METHOD 8021B: VOLATILES							
Benzene	ND	0.024		mg/Kg	1	1/24/2020 2:24:01 AM	
Toluene	ND	0.049		mg/Kg	1	1/24/2020 2:24:01 AM	
Ethylbenzene	ND	0.049		mg/Kg	1	1/24/2020 2:24:01 AM	
Xylenes, Total	ND	0.097		mg/Kg	1	1/24/2020 2:24:01 AM	
Surr: 4-Bromofluorobenzene	94.5	80-120		%Rec	1	1/24/2020 2:24:01 AM	
EPA METHOD 300.0: ANIONS							
Chloride	ND	60		mg/Kg	20	1/24/2020 12:33:40 PM	Analyst: MRA

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2001882
Date Reported: 1/29/2020

CLIENT: Vertex Resource Group Ltd.**Client Sample ID:** BS20-02**Project:** General Kehoe**Collection Date:** 1/20/2020 3:15:00 PM**Lab ID:** 2001882-002**Matrix:** SOIL**Received Date:** 1/22/2020 3:30:00 PM**Analyses****Result****RL****Qual****Units****DF****Date Analyzed****EPA METHOD 8015M/D: DIESEL RANGE ORGANICS****Analyst: BRM**

Diesel Range Organics (DRO)	69	10	mg/Kg	1	1/23/2020 11:34:44 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/23/2020 11:34:44 AM
Surr: DNOP	91.3	55.1-146	%Rec	1	1/23/2020 11:34:44 AM

EPA METHOD 8015D: GASOLINE RANGE**Analyst: NSB**

Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/24/2020 2:47:18 AM
Surr: BFB	82.2	66.6-105	%Rec	1	1/24/2020 2:47:18 AM

EPA METHOD 8021B: VOLATILES**Analyst: NSB**

Benzene	ND	0.025	mg/Kg	1	1/24/2020 2:47:18 AM
Toluene	ND	0.049	mg/Kg	1	1/24/2020 2:47:18 AM
Ethylbenzene	ND	0.049	mg/Kg	1	1/24/2020 2:47:18 AM
Xylenes, Total	ND	0.098	mg/Kg	1	1/24/2020 2:47:18 AM
Surr: 4-Bromofluorobenzene	93.2	80-120	%Rec	1	1/24/2020 2:47:18 AM

EPA METHOD 300.0: ANIONS**Analyst: MRA**

Chloride	80	60	mg/Kg	20	1/24/2020 1:10:43 PM
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2001882
Date Reported: 1/29/2020

CLIENT: Vertex Resource Group Ltd.**Client Sample ID:** WS20-01**Project:** General Kehoe**Collection Date:** 1/20/2020 3:30:00 PM**Lab ID:** 2001882-003**Matrix:** SOIL**Received Date:** 1/22/2020 3:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Analyst
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	33	9.0		mg/Kg	1	1/23/2020 11:43:39 AM	
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/23/2020 11:43:39 AM	
Sur: DNOP	100	55.1-146		%Rec	1	1/23/2020 11:43:39 AM	
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/24/2020 3:10:35 AM	
Sur: BFB	83.1	66.6-105		%Rec	1	1/24/2020 3:10:35 AM	
EPA METHOD 8021B: VOLATILES							
Benzene	ND	0.024		mg/Kg	1	1/24/2020 3:10:35 AM	
Toluene	ND	0.049		mg/Kg	1	1/24/2020 3:10:35 AM	
Ethylbenzene	ND	0.049		mg/Kg	1	1/24/2020 3:10:35 AM	
Xylenes, Total	ND	0.098		mg/Kg	1	1/24/2020 3:10:35 AM	
Sur: 4-Bromofluorobenzene	94.6	80-120		%Rec	1	1/24/2020 3:10:35 AM	
EPA METHOD 300.0: ANIONS							
Chloride	380	60		mg/Kg	20	1/24/2020 1:23:04 PM	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2001882
Date Reported: 1/29/2020

CLIENT: Vertex Resource Group Ltd.**Client Sample ID:** WS20-02**Project:** General Kehoe**Collection Date:** 1/20/2020 3:45:00 PM**Lab ID:** 2001882-004**Matrix:** SOIL**Received Date:** 1/22/2020 3:30:00 PM**Analyses****Result****RL****Qual****Units****DF****Date Analyzed****EPA METHOD 8015M/D: DIESEL RANGE ORGANICS****Analyst: BRM**

Diesel Range Organics (DRO)	11	10	mg/Kg	1	1/23/2020 11:52:33 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/23/2020 11:52:33 AM
Sur: DNOP	91.1	55.1-146	%Rec	1	1/23/2020 11:52:33 AM

EPA METHOD 8015D: GASOLINE RANGE**Analyst: NSB**

Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/24/2020 3:33:50 AM
Sur: BFB	81.0	66.6-105	%Rec	1	1/24/2020 3:33:50 AM

EPA METHOD 8021B: VOLATILES**Analyst: NSB**

Benzene	ND	0.025	mg/Kg	1	1/24/2020 3:33:50 AM
Toluene	ND	0.049	mg/Kg	1	1/24/2020 3:33:50 AM
Ethylbenzene	ND	0.049	mg/Kg	1	1/24/2020 3:33:50 AM
Xylenes, Total	ND	0.099	mg/Kg	1	1/24/2020 3:33:50 AM
Sur: 4-Bromofluorobenzene	91.9	80-120	%Rec	1	1/24/2020 3:33:50 AM

EPA METHOD 300.0: ANIONS**Analyst: MRA**

Chloride	170	61	mg/Kg	20	1/24/2020 1:35:24 PM
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: 2001882
29-Jan-20

Client: Vertex Resource Group Ltd.
Project: General Kehoe

Sample ID: MB-50025	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 50025	RunNo: 66053								
Prep Date: 1/24/2020	Analysis Date: 1/24/2020	SeqNo: 2269609 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Sample ID: LCS-50025	SampType: Ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 50025	RunNo: 66053								
Prep Date: 1/24/2020	Analysis Date: 1/24/2020	SeqNo: 2269611 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: 2001882
29-Jan-20

Client: Vertex Resource Group Ltd.

Project: General Kehoe

Sample ID: LCS-49989	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 49989	RunNo: 66004								
Prep Date: 1/23/2020	Analysis Date: 1/23/2020	SeqNo: 2266978 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	63.9	124			
Sur: DNOP	4.5		5.000		89.5	55.1	146			

Sample ID: MB-49989	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 49989	RunNo: 66004								
Prep Date: 1/23/2020	Analysis Date: 1/23/2020	SeqNo: 2266979 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Sur: DNOP	9.3		10.00		93.0	55.1	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: 2001882
29-Jan-20

Client: Vertex Resource Group Ltd.
Project: General Kehoe

Sample ID: mb-49978	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 49978	RunNo: 66017								
Prep Date: 1/22/2020	Analysis Date: 1/23/2020	SeqNo: 2267664 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Sur: BFB	890		1000		88.5	66.6	105			
Sample ID: Ics-49978	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 49978	RunNo: 66017								
Prep Date: 1/22/2020	Analysis Date: 1/23/2020	SeqNo: 2267665 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.7	80	120			
Sur: BFB	990		1000		99.4	66.6	105			
Sample ID: mb-50005	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 50005	RunNo: 66055								
Prep Date: 1/23/2020	Analysis Date: 1/25/2020	SeqNo: 2268933 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sur: BFB	810		1000		81.2	66.6	105			
Sample ID: Ics-50005	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 50005	RunNo: 66055								
Prep Date: 1/23/2020	Analysis Date: 1/25/2020	SeqNo: 2268934 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sur: BFB	860		1000		86.2	66.6	105			
Sample ID: MB-50043	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 50043	RunNo: 66068								
Prep Date: 1/24/2020	Analysis Date: 1/27/2020	SeqNo: 2269049 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sur: BFB	770		1000		77.0	66.6	105			
Sample ID: LCS-50043	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 50043	RunNo: 66068								
Prep Date: 1/24/2020	Analysis Date: 1/27/2020	SeqNo: 2269050 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sur: BFB	890		1000		89.0	66.6	105			

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- PQL Practical Quantitative Limit
- RL Reporting Limit
- S % Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: 2001882
29-Jan-20

Client: Vertex Resource Group Ltd.
Project: General Kehoe

Sample ID: mb-49978		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS		Batch ID: 49978		RunNo: 66017						
Prep Date: 1/22/2020		Analysis Date: 1/23/2020		SeqNo: 2267696 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	80	120			

Sample ID: LCS-49978		SampType: LCS		TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS		Batch ID: 49978		RunNo: 66017						
Prep Date: 1/22/2020		Analysis Date: 1/23/2020		SeqNo: 2267697 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.8	80	120			
Toluene	0.96	0.050	1.000	0	96.3	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: mb-50005		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS		Batch ID: 50005		RunNo: 66055						
Prep Date: 1/23/2020		Analysis Date: 1/25/2020		SeqNo: 2268950 Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	80	120			

Sample ID: LCS-50005		SampType: LCS		TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS		Batch ID: 50005		RunNo: 66055						
Prep Date: 1/23/2020		Analysis Date: 1/25/2020		SeqNo: 2268951 Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.91		1.000		90.6	80	120			

Sample ID: MB-50043		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS		Batch ID: 50043		RunNo: 66068						
Prep Date: 1/24/2020		Analysis Date: 1/27/2020		SeqNo: 2269077 Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.87		1.000		86.6	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: 2001882
29-Jan-20

Client: Vertex Resource Group Ltd.
Project: General Kehoe

Sample ID: LCS-50043	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 50043	RunNo: 66068								
Prep Date: 1/24/2020	Analysis Date: 1/27/2020	SeqNo: 2269078 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		87.7	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: VERTEX CARLSBAD

Work Order Number: 2001882

RcptNo: 1

Received By: Desiree Dominguez 1/22/2020 3:30:00 PM

Completed By: Erin Melendrez 1/22/2020 4:08:02 PM

Reviewed By: TD 1/22/20**Chain of Custody**1. Is Chain of Custody sufficiently complete? Yes No Not Present

2. How was the sample delivered? Courier

Log In3. Was an attempt made to cool the samples? Yes No NA 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA 5. Sample(s) in proper container(s)? Yes No 6. Sufficient sample volume for indicated test(s)? Yes No 7. Are samples (except VOA and ONG) properly preserved? Yes No 8. Was preservative added to bottles? Yes No NA 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA 10. Were any sample containers received broken? Yes No

of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted _____
Checked by: <u>DM</u> 1/22/20

11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No 12. Are matrices correctly identified on Chain of Custody? Yes No 13. Is it clear what analyses were requested? Yes No 14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No **Special Handling (if applicable)**15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	Date:
By Whom:	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	
Client Instructions:	

16. Additional remarks:

17. **Cooler Information**

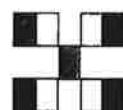
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good				

Chain-of-Custody RecordClient: **Vertex**Mailing Address: **on file**Phone #: **on file**email or Fax#: **Natalie Gordon**

QA/QC Package:

 Standard Level 4 (Full Validation) Standard Level 4 (Full Validation)

		Turn-Around Time: 5 Day			
<input checked="" type="checkbox"/>	Standard	<input type="checkbox"/>	Rush		
Project Name:	General Kehoe		Project #:	19E-04341 001	
Sampler:	MSP		Project Manager:	Natalie Gordon	
On Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	# of Coolers:	1	
Cooler Temp (including CF):	2.4 = 0.0 = 2.4 (°C)		BTEX / MTBE / TMB's (8021)		
Container Type and #	Preservative Type	HEAL No.	TPH:8015D(GRO / DRO / MRO)		
1/20 3'15	Soil	BS20-01	8081 Pesticides/8082 PCB's		
1/21 3'30	W520-01	ice -001	EDB (Method 504.1)		
1/21 3'45	W520-02	-002	PAHs by 8310 or 8270SIMS		
		-003	RCRA 8 Metals		
		-004	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄		
			8260 (VOA)		
			8270 (Semi-VOA)		
			Total Coliform (Present/Absent)		



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date: 1/21/20	Time: 1430	Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Via: 1/21/20 1430	Date: 1/21/20	Time: 1430
Date: 1/21/20	Time: 1430	Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Via: 1/21/20 1530	Date: 1/21/20	Time: 1530

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.

Albuquerque, NM 87109
4901 Hawkins NE
Laboratory Manager
Andy Freeman

Sincerely,

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Please don't hesitate to contact HEAL for any additional information or clarifications.

chlorine are qualified as being analyzed outside of the recommended holding time. parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time. received, unless otherwise indicated. Lab measurement of analytes considered field QC summary report, both sections should be reviewed. All samples are reported, as When necessary, data qualifiers are provided on both the sample analysis report and the provided if the sample analysis or analytical quality control parameters require a flag. the sample receipt temperature and preservation. Data qualifiers or a narrative will be entirety. See the sample checklist and/or the Chain of Custody for information regarding In order to properly interpret your results, it is imperative that you review this report in its accredited tests please go to www.hallenvironmental.com or the state specific web sites.

These were analyzed according to EPA procedures or equivalent. To access our

Hall Environmental Analysis Laboratory received 4 sample(s) on 1/16/2020 for the analyses presented in the following report.

Dear Natalie Gordon:

RE: General Kehoe
OrderNo.: 2001620

Natalie Gordon
Vertex Resource Group Ltd.
213 S. Mesa St
Carlsbad, NM 88220
TEL:
FAX:
January 21, 2020

Website: www.hallenvironmental.com
TEL: 505-345-3975 FAX: 505-345-4109
Albuquerque, NM 87109
4901 Hawkins NE
Hall Environmental Analysis Laboratory



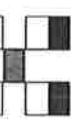
Qualifiers:	D	H	J	P	NID	R	S
Value exceeds Maximum Contaminant Level	Sample Method Due to Matrix	Holding times for preparation or analysis exceeded	Analyte detected below quantitation limits	Not Detected at the Reporting Limit	Practical Quantitative Limit	Recovery outside of range due to dilution or matrix	
Analyte detected in the associated Method Blank	Value above quantitation range	Value below quantitation range	J	p	Range Not In Range	Reported Limit	
Sample Method Due to Matrix	Hold time exceeded	Analyte detected below quantitation limits					
*							

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Client Name: VERTEX CARLSBAD				Work Order Number: 2001620				Receipt #: 1			
Sample Log-in Check List											
<p>Received By: Desirée Dominguez Completed By: Yazmine Garandino Reviewed By: EAH</p> <p>1/16/2020 9:10:00 AM 1/16/2020 10:09:11 AM</p> <p><i>[Signature]</i></p>											
<p>Client Name: VERTEX CARLSBAD</p> <p>Address: 4901 Flawkins NE Albuquerque, NM 87109</p> <p>TEL: 505-345-3975 FAX: 505-345-4107</p> <p>Website: www.hallenvironmental.com</p>											
<p>Chain of Custody</p> <p>1. Is Chain of Custody sufficiently complete? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Present <input type="checkbox"/></p> <p>2. How was the sample delivered? Courier <input type="checkbox"/></p> <p>3. Was an attempt made to cool the samples? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/></p> <p>4. Were all samples received at a temperature of >0° C to 6.0°C Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/></p> <p>5. Sample(s) in proper container(s)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/></p> <p>6. Sufficient sample volume for indicated test(s)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/></p> <p>7. Are samples (except VOA and ONG) properly preserved? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/></p> <p>8. Was preservative added to bottles? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/></p> <p>9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/></p> <p>10. Were any sample containers received broken? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/></p> <p>11. Does paperwork match bottle labels? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> # of preserved bottles checked for PH:</p> <p>(Note discrepancies on chain of custody) (<2 or >12 unless noted)</p> <p>12. Are matrices correctly identified on Chain of Custody? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/></p> <p>13. Is it clear what analyses were requested? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/></p> <p>14. Were all holding times able to be met? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/></p> <p>(If no, notify customer for authorization.)</p>											
<p>Special Handling (if applicable)</p> <p>15. Was client notified of all discrepancies with this order? Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/></p> <p>16. Additional remarks: <i>[Handwritten notes: 11/16/20, Adjusted]</i></p>											
<p>17. Carrier Information</p> <p>Date: _____</p> <p>By Whom: _____</p> <p>Person Notified: _____</p> <p>By whom: <input type="checkbox"/> Email <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person</p> <p>Regarding: _____</p> <p>Client Instructions: _____</p>											

Chain-of-Custody RecordClient: **VERTEX**Mailing Address: **DNFILE**

Project Name:

Project #: **19-04341-001**

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**
www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Turn-Around Time:

Standard Rush
5 Day

Analysis Request

Phone #: **Natalie Gordon**
 email or Fax#: **Natalie.Gordon**
 QA/QC Package:
 Standard Level 4 (Full Validation)

Project Manager:
Natalie Kehoe
 Natalie Gordon

BTEX / MTBE / TMB's (8021)
 TPH:8015D(GRO / DRO / MRO)
 8081 Pesticides/8082 PCB's
 EDB (Method 504.1)
 PAHs by 8310 or 8270SIMS
 RCRA 8 Metals
 Cl, F, Br, NO₃, NO₂, PO₄, SO₄
 8260 (VOA)
 8270 (Semi-VOA)
 Total Coliform (Present/Absent)

EDD (Type): **Soil**
 Accreditation: Az Compliance NELAC
 Other
 Sampler: **MJP**
 On Ice: Yes No
 # of Coolers: **1**
 Cooler Temp(including CF): **2.4 - 0.0 = 2.4 (°C)**

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	Sample No.
1/14	12:00	Soil	BG 1 - 0'	4 oz	ice	-001
	12:05		BG 1 - 1'			-002
	12:10		BG 1 - 2'			-003
	12:15		BG 1 - 3'			-004

Remarks:

Date:	Time:	Relinquished by:	Received by:	Via:	Date:	Time:	Remarks:
1/15/20	1400	<i>Natalie Gordon</i>	<i>Mark L</i>	<i>John</i>	1/15/20	1400	CC: Natalie Gordon
Date:	Time:	Relinquished by:	Received by:	Via:	Date:	Time:	
1/15/20	1400	<i>Mark L</i>	<i>John</i>	<i>John</i>	1/16/20	09:10	<i>Matador</i>